

BALANCES & TEST SERVICE

Laboratory | Industry | Food Industry

PROFESSIONAL MEASURING



2025

It's so easy to order from KERN:

 **Tel. +49 7433 9933-0**

 **E-Mail**
info@kern-sohn.com

 **Online Shop**
www.kern-sohn.com

**We look forward to meeting you
in our online shop – simply use the
QR Code:**



Your Advantages – our Philosophy. All KERN Advantages at a Glance

Online Shop

www.kern-sohn.com

For convenient ordering you will find a huge selection of products and services in our KERN online shop, 24/7.

Advice from the experts

Our KERN experts will offer you individual advice in a range of languages and will be pleased to assist you:
Mon - Fri from 8.00 am to 5.00 pm

100 % product availability and dispatch service

With KERN you can be sure that you will have immediate access to the products you need – provided that they are in stock. Our 24-hour dispatch service will send your products immediately. Ordered today, on their way tomorrow!

Warranty

We offer you as the customer up to 3 years warranty on all products in our entire range, as an option the warranty can be extended for a small fee. Because our products deliver on their promises!

Customer service

Our customer service is personally available by telephone, e-mail or video call. We speak more than 7 languages and we will be happy to help with your requests.

Trust through experience

Experience counts in terms of weighing and measuring technology and this has been the case for 180 years – for the benefit of our customers. Put us to the test!

Accreditations/certification

- DAkkS accreditation
DIN EN ISO/IEC 17025
- Certified QM system DIN EN ISO 9001
- Conformity assessment in accordance with NAWID 2014/31/EU
- Medical certifications DIN EN ISO 13485 and 93/42/EEC or VO (EU) 2017/745

DAkkS calibrations

In the modern, accredited KERN calibration laboratory, we perform DAkkS calibrations for balances, test weights as well as for numerous other measuring devices. In addition we can offer calibrations on your premises. Of course, all services are in accordance with international standards.

Verification service

Our professional verification service offers conformity assessments and verification of balances and weights – for a feeling of security in compliance with legal requirements.

Individual customer solutions

We are the right partner for special customer requirements. KERN offers numerous modular system solutions for your very individual weighing requirements. Please contact us!

Service Portal

You can find aftersales support in our online service portal: Technical Support, help with questions or problems, etc.
www.kern-sohn.com/shop/en/Serviceportal/

Spare parts and repair service

In spite of reliable KERN quality: If you should ever need to make a complaint about our products, we will help you quickly, flexibly and in an unbureaucratic manner.

No storage costs

You have no storage costs – we maintain the storage. Direct dispatch of ordered goods to your customer is available, invoice will be issued to you (third party business).

Still got questions?

You can find all KERN Service Hotlines on page 5.

KERN Pictograms



Internal adjusting
Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)



Adjusting program CAL
For quick setting up of the balance's accuracy. External adjusting weight required



EasyTouch
Suitable for the connection, data transmission and control through PC or tablet



Memory
Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.



Alibi memory
Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.



KERN Universal Port (KUP)
allows the connection of external KUP interface adapters, e.g. RS-232, RS-485, SB, Bluetooth, WIFI, Analogue, Ethernet etc. for the exchange of data and control commands, without installation effort



RS-232 Data interface
To connect the balance to a printer, PC or network



RS-485 Data interface
To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible



USB Data interface
To connect the balance to a printer, PC or other peripherals



Bluetooth* Data interface
To transfer data from the balance to a printer, PC or other peripherals



WIFI Data interface
To transfer data from the balance to a printer, PC or other peripherals



Control outputs
(optocoupler, digital I/O)
To connect relays, signal lamps, valves, etc.



Analogue interface
to connect a suitable peripheral device for analogue processing of the measurements



Interface for second balance
For direct connection of a second balance



Network interface
For connecting the scale to an Ethernet network



KERN Communication Protocol (KCP)
It is a standardized interface command set for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers and other digital systems



GLP/ISO log intern
The balance displays weight, date and time, independent of a printer connection



GLP/ISO log Printer
With weight, date and time. Only with KERN printers.



Piece counting
Reference quantities selectable. Display can be switched from piece to weight



Recipe level A
The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out



Recipe level B
Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display



Totalising level A
The weights of similar items can be added together and the total can be printed out



Percentage determination
Determining the deviation in % from the target value (100 %)



Weighing units
Can be switched to e.g. nonmetric units. See balance model. Please refer to KERN's website for more details



Weighing with tolerance range (Checkweighing)
Upper and lower limiting can be programmed individually, e.g. for sorting and dosing. The process is supported by an audible or visual signal, see the relevant model



Hold function
(Animal weighing program)
When the weighing conditions are unstable, a stable weight is calculated as an average value



Protection against dust and water splashes IPxx
The type of protection is shown in the pictogram



Suspended weighing
Load support with hook on the underside of the balance



Battery operation
Ready for battery operation. The battery type is specified for each device



Rechargeable battery pack
Rechargeable set



Universal plug-in power supply
with universal input and optional input socket adapters for
A) EU, CH, GB
B) EU, CH, GB, US
C) EU, CH, GB, US, AUS



Plug-in power supply
230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available



Integrated power supply unit
Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request



Weighing principle Strain gauges
Electrical resistor on an elastic deforming body



Weighing principle Tuning fork
A resonating body is electromagnetically excited, causing it to oscillate



Weighing principle Electromagnetic force compensation
Coil inside a permanent magnet. For the most accurate weighings



Weighing principle Single cell technology
Advanced version of the force compensation principle with the highest level of precision



Conformity Assessment
The time required for conformity assessment is specified in the pictogram



DAKkS calibration possible (DKD)
The time required for DAKkS calibration is shown in days in the pictogram



Factory calibration (ISO)
The time required for Factory calibration is shown in days in the pictogram



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The time required for internal shipping preparations is shown in days in the pictogram



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The time required for internal shipping preparations is shown in days in the pictogram

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KERN Quick-Finder

How I quickly find the product I am looking for

Ahead of each product group allows you to base the search for a certain target group on weighing data you need such as readout, weighing capacity and main features for each model.

And it's as simple as that – find the product you want in 2 steps:

1. Go to the product group index on page 3
2. Pick the appropriate product group and find the product you want using the Quick-Finder

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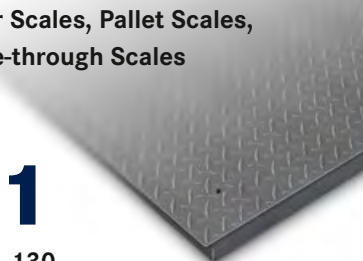
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Do you have questions about our products?

Our customer consultants will be pleased to assist you

UK, BE, IE, IS, LU, NL



Maren Neff
Area Sales Manager
Tel. +49 7433 9933-132
Mobil +49 151 46143240
maren.neff@kern-sohn.com

UK, IE IS



Leila Kenan
Back Office
Tel. +49 7433 9933-153
leila.kenan@kern-sohn.com

PL, LV, LT, EE, SK, CZ, HU



Mark Hauder
Area Sales Manager
Tel. +49 7433 9933-310
Mobil +49 160 3378426
mark.hauder@kern-sohn.com



Rebecca Schäfer
Back Office
Tel. +49 7433 9933-119
rebecca.schaefer@kern-sohn.com

GR, CY, BG, RO, AL, Ex-Yugoslavia, GUS



Ariana Sevcenco
Area Sales Manager
Tel. +49 7433 9933-203
Mobil +49 151 72434692
ariana.sevcenco@kern-sohn.com



Inna Wandler
Back Office
Tel. +49 7433 9933-167
inna.wandler@kern-sohn.com



Rebecca Schäfer
Back Office
Tel. +49 7433 9933-119
rebecca.schaefer@kern-sohn.com

North America, Near- & Middle East, Africa, Asia, Oceania, TR



Corinna Matthes
Area Sales Manager
Tel. +49 7433 9933-215
Mobil +49 151 44568364
corinna.matthes@kern-sohn.com



Corinna Matthes
Back Office
Tel. +49 7433 9933-215
Mobil +49 151 44568364
corinna.matthes@kern-sohn.com

DAkkS Calibration Service Inhouse, Test weights, balances & measuring instruments



Lars Wagner
Tel. +49 7433 9933-255
lars.wagner@kern-sohn.com



Karl-Richard Fuchs
Tel. +49 7433 9933-136
testservices-onsite@kern-sohn.com

General Manager



Albert Sauter
Tel. +49 7433 9933-157
albert.sauter@kern-sohn.com

Head of Division Sales and Marketing



Stephan Ade
Tel. +49 7433 9933-121
Mobil +49 171 3060086
ade@kern-sohn.com

Marketing Manager, Deputy Sales Manager



Hendrik Neff
Tel. +49 7433 9933-161
Mobil +49 171 3059946
hendrik.neff@kern-sohn.com

Team Manager Marketing & Communications



Katharina Faradacco
Tel. +49 7433 9933-192
katharina.faradacco@kern-sohn.com

KERN Category Manager

You need advice and help or have special requests? Our service for you: our category managers advise you on all topics and look for the right product solution for your individual requirements. By telephone or by e-mail, just as it is most convenient for you.



Laboratory

Aleksandar Delić
Team Leader
Tel. +49 7433 9933-120
Mobil +49 151 11196197
aleksandar.delic@kern-sohn.com



Test Weights

Taras Mikitisin
Tel. +49 7433 9933-143
Mobil +49 171 5590115
mikitisin@kern-sohn.com



Medical Sector

Jobst Kamal
Tel. +49 7433 9933-268
Mobil +49 151 67010975
jobst.kamal@kern-sohn.com



Software EasyTouch

Wolfgang Schäfer
Tel. +49 7433 9933-324
Mobil +49 170 2723266
etsales@kern-sohn.com

KERN Hotlines

Technical questions about our products?

You will find assistance here quickly: +49 7433 9933 - ...



Service Hotline

for general technical questions about your KERN product

→ 199

System Solutions Industry 4.0

for all technical questions concerning the interlocking of the latest information and communication technology with our scales, load cells and measuring devices as well as questions about KERN software

→ 200

Industrial Scales

for all technical questions concerning our basic scales (laboratory & industry), pocket balances, school balances, bench scales, price-computing scales, platform scales, counting scales, counting systems, floor scales, pallet truck scales, crane scales, veterinary scales

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Laboratory and Analytical Balances

for all technical questions concerning our high quality precision balances, analytical balances (especially with electro-magnetic force-compensated measuring systems, tuning fork and high application density)

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Medical Scales

for all technical questions concerning our baby scales, personal scales, handrail scales, chair scales, wheelchair scales, dynamometers

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for all technical questions concerning our microscopes, microscope cameras, refractometers, etc.

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for all technical questions about the installation and commissioning of the EasyTouch software

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NEW IN → 2025



Innovative technology, new features, outstanding performance. In the Food and Industry sectors we have gone all out for you. You will be impressed by our new products for 2025!

NEW



Versatile, precise, accurate

→ **Precision Balance KERN PDS/PDT**

Precision balance with innovative touch display combines the most modern technology and versatile functions such as statistics, counting function and percentage weighing. Ideal for the pharmaceutical industry, it supports the highest data integrity in accordance with FDA standards. Interfaces mean that weight values can be transferred easily. Includes draft shield and suspended weighing for maximum precision.

For details, see *Precision Balances*

NEW



Precision redefined

→ **Analytical Balance KERN ADS/ADT**

Our analytical balance with touch display offers a wide range of functions, from statistics to percentage weighing. Ideal for the pharmaceutical industry and the laboratory.

For details, see *Analytical Balances*

NEW



Compact and reliable

→ **Thermal Printer KERN YKC-01**

The ideal addition to your scales. Perfect for documenting weighing data and for daily use.

For details, see *Accessories*

NEW



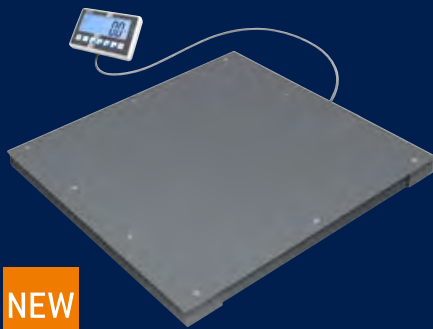
Perfect protection for precision

→ **Clean Room Boxes**

The KERN weight boxes made of high-quality polyoxymethylene (POM) have been specially developed for cleanroom and laboratory environments and provide optimum protection for test weights. Thanks to the robust, edge-free design, the cases are particularly hygienic and easy to clean.

Suitable for weight classes E1 to M1, they fulfil the highest cleanliness standards, are resistant to numerous cleaning agents and disinfectants and are even suitable for thermal disinfection. Antistatic versions are also available on request.

For details, see *Test weights*

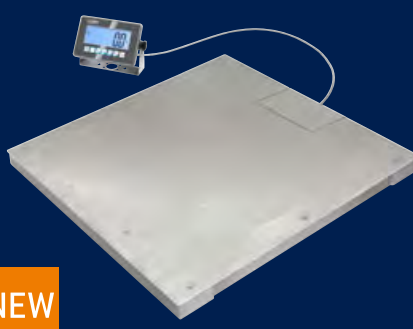


NEW

The precise solution for heavy loads
→ **Floor Scale KERN BFC**

Ideal for the highest demands – with stable XXL weighing plate and IoT functionality.

For details, see *Floor Scales*

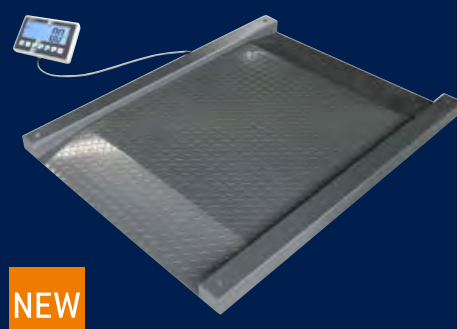


NEW

Robust performance for any challenge
→ **Stainless Steel Floor Scale**
KERN BXC

With various interfaces and optional alibi memory, it adapts to individual requirements and is therefore the perfect partner for industrial applications.

For details, see *Floor Scales*

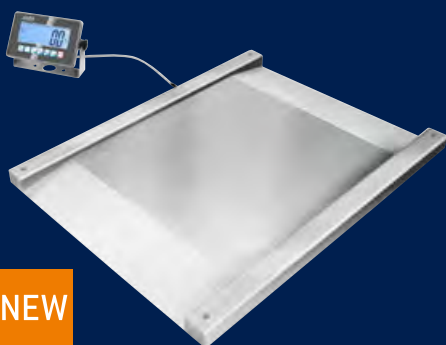


NEW

Efficiency through networking
→ **Drive-Through Scale KERN NFC**

Especially suitable for the rapid weighing seasonings, ingredients etc. Thanks to the robust anti-slip corrugated steel and IP67 protection of the weighing bridge, it is ideally equipped for daily use.

For details, see *Drive-Through Scales*



NEW

Flexible, robust, networkable
→ **Stainless Steel Drive-Through Scale**
KERN NXC

Optimise your processes with our IoT-enabled stainless-steel drive-on scale. Thanks to the flexible interfaces and robust design, it is suitable for a wide range of applications.

For details, see *Drive-Through Scales*



NEW

Flexible and mobile for any location
→ **Pallet Scale KERN UFC**

Perfect for flexible use. The robust steel load support and the silicone-coated load cells ensure a long service life and precise results.

For details, see *Pallet Scales*



NEW

Hygiene meets engineering
→ **Stainless Steel Pallet Scale**
KERN UXC

The perfect solution for the food industry. The stainless-steel load support and the high IP protection classes ensure maximum hygiene and durability.

For details, see *Pallet Scales*



POCKET BALANCES

Pocket size precision

Pocket balances are the ideal helpers whenever mobility and high precision are required. Since they have fewer keys, operation is simple and fast. Different weighing units stored in the pocket balance, such as g, oz, ct, gn, etc., make them universally usable. Compact in size and well protected with a flap or protective cover, which can be used as a convenient taring container, the pocket balance is always a useful tool for mobile weighing.

- In production, to control of production weights or during the picking of small parts
- In quality control for the quick testing of small parts like plastic parts from injection moulding machines, milled parts, screws, etc.
- For mobile weighing, on-site sampling, and fast analysis wherever there's no power outlet
- In hobbies and sports, e.g. when filling gun powder, weighing parts from modelling kits etc.
- In commerce, for the fast determination of the weights of coins, jewellery, precious stones, etc.
- In the veterinary sector for the weighing of small animals, the mixing of food, etc.
- In the food sector for the preparation of spice or tea mixes, for the weighing of food in line with a diet sheet

Quick-Finder Pocket Balances

Readout	Weighing capacity	Model	Price	Page			
[d]	[Max]	KERN	excl. of VAT ex works €		For an explanation on the pictos, see the front flap		
g	g						
0,001	50	TGD 50-3C 	72,-	9	●	●	●
0,01	150	TGC 150-2	40,-	9	●	●	●
0,1	500	TGC 500-1	35,-	9	●	●	●
1	1000	TGC 1K-3	40,-	9	●	●	●

 = Carat balance

● Standard ○ Option



Slim pocket balance with large stainless steel weighing plate and practical tare pan

- Features
- High-resolution pocket balance with particularly rapid reaction and stabilisation time, which means that you can work extremely efficiently
 - Particularly flat design
 - 1 Cover made of shock proof plastic as protection against pressure and dust. Can also be used as a tare cup
 - Stainless steel weighing plate, which makes cleaning easy and hygienic
 - Ready for use: Batteries included, 2×CR2032, operating time up to 8,75 h. Integrated AUTO-OFF function after 4 minutes to preserve the batteries



Compact pocket carat balance for precision weighing of jewellery and precious stones

- Features
- Simple and convenient 4-key operation
 - Can be switched over from g to ct, gn, dwt, ozt, oz at the touch of a key
 - Large touch-sensitive, backlit touch display with very good contrast for easy operation and convenient reading
 - Hard case cover as protection against pressure and dust
 - Stainless steel weighing plate, which makes cleaning easy and hygienic
 - Weighing pan standard
 - Powder scale with Grain division (gn), ideal for sport shooters, reloaders etc. for self-filling cartridge cases
 - USB cable for power supply as standard
 - Ready for use: Batteries included, 4×1.5 V AAA, operating time up to 150 h. Integrated AUTO-OFF function after 5 minutes to preserve the batteries
 - 2 Delivered in single design packaging



STANDARD

CAL EXT

UNIT

BATT

1 DAY

OPTION

DAkKS

+3 DAYS



KERN Model	TGC 150-2	TGC 500-1	TGC 1K-3	TGD 50-3C
Weighing capacity [Max] g	150	500	1000	50 250 ct
Readability [d] g	0,01	0,1	1	0,001 0,005 ct
LCD display - backlit		yes		yes
LCD display - digit height		12 mm		20 mm
Dimensions of weighing surface W×D		81 mm		65 mm
Overall dimensions W×D×H		100×130×18 mm		96×150×64 mm
Net weight	200 g	150 g	150 g	250 g
Permissible ambient temperature		0 °C - 40 °C		5 °C - 35 °C
Price, excl. of VAT, ex works, €	40,-	35,-	40,-	72,-
Option DAkKS Calibr. Certificate		963-127, € 103,-		963-127, € 103,-

2



SCHOOL BALANCES

As entry-level models, KERN school balances cover the most important basic applications of laboratory balances and offer simple operation, easy readability and an optimal price-performance ratio. The KERN School balances can be used flexibly and independent of location thanks to battery operation and are therefore the ideal choice for school or teaching purposes.

Our recommendation: the KERN EFS school balance in our product range, a space-saving and inexpensive allrounder for school teaching programs and universities.

Quick-Finder School Balances

Readout	Weighing capacity	Model	Price	Page	CAL EXT	RS 232	PCS	A MULTI	B MULTI	BATT
[d] g	[Max] g	KERN	excl. of VAT ex works €		For an explanation on the pictos, see the front flap					
0,001	100	EMB 100-3	225,-	12	●				○	●
0,001	200	EMB 200-3	240,-	12	●				○	●
0,001	200	EMB 200-3V	275,-	13	●	●			○	●
0,001	300	EMS 300-3	300,-	14	●		●		○	●
0,01	200	EMB 200-2	135,-	12	●				○	●
0,01	500	EHA 500-2	93,-	15	●		●	●		●
0,01	500	EFS 500-2	120,-	11	●				○	●
0,01	600	EMB 600-2	175,-	12	●				○	●
0,01	1000	EMB 1000-2	220,-	12	●				○	●
0,01	2000	EMB 2000-2	235,-	12	●				○	●
0,01	2000	EMB 2000-2V	270,-	13	●	●			○	●
0,01	3000	EMS 3000-2	260,-	14	●		●		○	●
0,1	220	EFS 200-1S05	194,-	11	●				○	●
0,1	500	EMB 500-1	60,-	12	●				○	●
0,1	500	EMB 500-1BE	60,-	12	●				○	●
0,1	500	EHA 500-1	68,-	15	●		●	●		●
0,1	620	EFS 600-1S05	200,-	11	●				○	●
0,1	1000	EHA 1000-1	73,-	15	●		●	●		●
0,1	1200	EMB 1200-1	80,-	12	●				○	●
0,1	3000	EHA 3000-1	93,-	15	●		●	●		●
0,1	3000	EFS 3000-1	100,-	11	●				○	●
0,1	3000	EMB 3000-1	135,-	12	●				○	●
0,1	6000	EMB 6000-1	175,-	12	●				○	●
0,1	6000	EMS 6K0.1	185,-	14	●		●		○	●
0,1	12000	EMS 12K0.1	230,-	14	●		●		○	●
1	2200	EMB 2200-0	60,-	12	●				○	●
1	2200	EFS 2000-0S05	194,-	11	●				○	●
1	3000	EHA 3000-0	68,-	15	●		●	●		●
1	5200	EMB 5.2K1	60,-	12	●				○	●
1	5200	EFS 5000-0S05	200,-	11	●				○	●
1	6000	EMS 6K1	95,-	14	●		●		○	●
1	12000	EMS 12K1	100,-	14	●		●		○	●
5	5200	EMB 5.2K5	56,-	12	●				○	●

● Standard ○ Option



SET
5x



2

Perfect school balances for experimental teaching – easy to use, space-saving, stackable

Features

- Simple and convenient 2-key operation, making them ideal for use in schools and universities
- Tare function facilitates formulation work
- Particularly flat design
- Secure and non-slip positioning with rubber feet
- 1 Stackable for space-saving storage
- 2 Practical battery operation using standard batteries ensures a high level of flexibility and freedom from mains adapters, sockets, chargers, etc.

Technical data

- Large LCD display, digit height 15 mm
- Dimensions weighing surface, plastic, WxD 134x127 mm
- Overall dimensions WxDxH 145x205x46,5 mm
- Battery operation, 4x1.5 V AA standard, operating time up to 200 h. Integrated AUTO-OFF function to preserve the batteries
- Net weight approx. 0,45 kg
- Permissible ambient temperature 10 °C/40 °C

Accessories

- External universal mains adapter, with universal input and optional input socket adapters for EU, CH, GB, US, KERN YKA-27, € 43,-

Note: The models with the suffix -S05 are delivered in a set of 5 units. i.e. the price given in the table refers to 5 items. Cannot be delivered individually

STANDARD

CAL EXT

UNIT

BATT

DMS

1 DAY

OPTION

B

DAkKS

MULTI

+3 DAYS

Model	Weighing capacity	Readability	Reproducibility	Linearity	Quantity delivered (balance)	Price excl. of VAT ex works €	Options	
							DAkKS	Calibr. Certificate
KERN	[Max] g	[d] g	g	g		€	KERN	€
EFS 500-2	500	0,01	0,01	± 0,03	1	120,-	963-127	103,-
EFS 200-1S05	220	0,1	0,1	± 0,3	5	194,-	963-127S05	515,-
EFS 600-1S05	620	0,1	0,1	± 0,3	5	200,-	963-127S05	515,-
EFS 3000-1	3000	0,1	0,1	± 0,3	1	100,-	963-127	103,-
EFS 2000-0S05	2200	1	1	± 3	5	194,-	963-127S05	515,-
EFS 5000-0S05	5200	1	1	± 3	5	200,-	963-128S05	620,-



Entry level laboratory balance with tremendous weighing performance

Features

- Simple and convenient 2-key operation
- Tare function facilitates formulation work
- Particularly flat design
- Ready for use: Batteries included
- **A** Ring-shaped draught shield standard, only for models with weighing plate size **A**, weighing space $\varnothing \times H$ 96×35 mm
- Hook for underfloor weighing standard
- **1** Also available as KERN EMB 500-1BE Black Edition
- Note: With the optional auxiliary set for density determination KERN YDB-04 also well suited for school and teaching operation, see *Accessories*

Technical data

- Large LCD display, digit height 15 mm
- Dimensions weighing surface
 - A** $\varnothing$ 82 mm, plastic, with conductive lacquer
 - B** $\varnothing$ 105 mm, plastic
 - C** $\varnothing$ 150 mm, plastic, see larger picture
- Overall dimensions W×D×H
 - A** 170×244×54 mm
 - B, C** 170×244×39 mm
- Batteries included, 9 V block, respectively 2×1.5 V AA
- Net weight approx. 0,85 kg
- Permissible ambient temperature 5 °C/35 °C

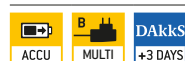
Accessories

- Stainless steel weighing plate, only for models with weighing plate size **B**, KERN EMB-A02, **€ 29,-**
- Rechargeable battery pack external, operating time up to 50 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- External universal mains adapter, with universal input and optional input socket adapters for EU, CH, GB, US, KERN YKA-03N, **€ 38,-**
- **2** Suitable for models with weighing plate size **A**: Ancillary kit for density determination of liquids and solids with density > 1. Scope of supplies: Bridge for holding the beaker ($\varnothing$ 102 mm), hook (H 139 mm), KERN YDB-04, **€ 27,-**

STANDARD



OPTION



Model	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Options	
							DAKKS Calibr. Certificate	
KERN							DAKKS KERN	€
EMB 100-3	100	0,001	0,001	± 0,005	A	225,-	963-127	103,-
EMB 200-3	200	0,001	0,001	± 0,005	A	240,-	963-127	103,-
EMB 200-2	200	0,01	0,01	± 0,02	B	135,-	963-127	103,-
EMB 600-2	600	0,01	0,01	± 0,03	B	175,-	963-127	103,-
EMB 1000-2	1000	0,01	0,01	± 0,05	C	220,-	963-127	103,-
EMB 2000-2	2000	0,01	0,01	± 0,05	C	235,-	963-127	103,-
EMB 500-1	500	0,1	0,1	± 0,2	C	60,-	963-127	103,-
EMB 500-1BE	500	0,1	0,1	± 0,2	C	60,-	963-127	103,-
EMB 1200-1	1200	0,1	0,1	± 0,3	C	80,-	963-127	103,-
EMB 3000-1	3000	0,1	0,1	± 0,3	C	135,-	963-127	103,-
EMB 6000-1	6000	0,1	0,1	± 0,3	C	175,-	963-128	124,-
EMB 2200-0	2200	1	1	± 2	C	60,-	963-127	103,-
EMB 5.2K1	5200	1	1	± 3	C	60,-	963-128	124,-
EMB 5.2K5	5200	5	5	± 10	C	56,-	963-128	124,-



School balance with integrated density determination function

Features

- Self-explanatory, graphic control panel
 - no learning time = reduces costs
 - ideal for untrained users
 - visualised process avoids operating errors.Note: Balance and appropriate set for density determination should be ordered at the same time, see *Accessories*
- Hook for underfloor weighing standard
- Self-explanatory, graphic control panel, the workings steps can be understood immediately, even without operating instructions
 - no learning time = reduces costs
 - ideal for untrained users
 - visualised process avoids operating errors
- The 4 steps are carried out from left to right:
 - 1 Tare the balance by pressing the [TARE] key
 - 2 Select density determination mode (solids/liquids)
 - 3 Weighing of samples/plummet in air
 - 4 Weighing of samples/plummet in liquid. The density will be shown on the display right away
- Particularly flat design

Technical data

- Large LCD display, digit height 15 mm
- Dimensions weighing surface, plastic
 - A ø 82 mm
 - B ø 150 mm, see larger picture
- Overall dimensions W×D×H 175×250×55 mm
- Batteries included, 9 V block, operating time up to 12 h, AUTO-OFF function preserves the battery
- Net weight approx. 0,85 kg
- Permissible ambient temperature 5 °C/35 °C
- Also with carat weighing unit:
 - EMB 200-3V: [Max] 1000 ct/[d] 0,005 ct
 - EMB 2000-2V: [Max] 10000 ct/[d] 0,05 ct

Accessories

- Rechargeable battery pack external, operating time up to 50 h without backlight, charging time approx. 10 h, KERN KS-A01, € 180,-
- KERN EMB 200-3V:**
- 5 Ancillary kit for density determination of liquids and solids with density > 1. Scope of supplies: Bridge for holding the beaker (ø 102 mm), hook (H 139 mm), KERN YDB-04, € 27,-
 - 6 Set for density determination of liquids and solids with density ≤/≥ 1. Scope of delivery: Weighing plate, beaker (H×ø 71×51 mm), sample holder, plummet, KERN YDB-01, € 270,-
 - DAkkS-Calibration certificate for the plummet (20 g), KERN 962-335V, € 175,-
- KERN EMB 2000-2V:**
- 7 Set for density determination of liquids and solids with density ≤/≥ 1. Scope of delivery: Weighing plate, beaker (H×ø 135×100 mm), sample holder, plummet KERN YDB-02, € 470,-
 - DAkkS-Calibration certificate for the plummet (200 g), KERN 962-338V, € 172,-
 - Thermometer, KERN YDB-A03, € 38,-

STANDARD

CAL EXT

RS 232

UNIT

UNDER

BATT

MULTI

DMS

1 DAY

OPTION

ACCU

DAkkS +3 DAYS

Model	Weighing capacity	Readability	Reproducibility	Linearity	Weighing plate	Price excl. of VAT ex works €	Options	
							DAkkS Calibr. Certificate	
	[Max]	[d]					DAkkS KERN	€
KERN	g	g	g	g				
EMB 200-3V	200	0,001	0,002	± 0,005	A	275,-	963-127	103,-
EMB 2000-2V	2000	0,01	0,02	± 0,05	B	270,-	963-127	103,-

2



Entry level model in the low-cost range with large weighing plate

Features

- Especially suitable for use in schools and universities, for example for biology, chemistry, physics
- Large, shock proof weighing plate made of plastic
- Particularly flat design
- Ergonomically optimised key pad with large keys and a high-contrast LCD display
- Secure and non-slip positioning with rubber feet
- Adjusting program CAL for quick setting of the balance accuracy, external test weights at an additional price, see *Test Weights*
- **A** Draught shield standard for models with weighing plate size **A**, weighing space W×D×H 145×145×65 mm

Technical data

- Large LCD display, digit height 25 mm
- Dimensions weighing surface
 - A** ø 105 mm, plastic, with conductive lacquer
 - B** W×D 175×190 mm, plastic, see larger picture
- Overall dimensions W×D×H 200×280×65 mm
- Optional battery operation, 9 V block not included in scope of delivery, operating time up to 40 h
- Mains adapter external, standard
- Net weight approx. 1,4 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- **1** Stainless steel weighing plate, only for models with weighing plate size **B**, KERN EMS-A01, **€ 33,-**
- Rechargeable battery pack external, operating time up to 50 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**

STANDARD

CAL EXT

PCS

RECIPE

PERCENT

UNIT

BATT

MULTI

DMS

1 DAY

OPTION

ACCU

DAKKS +3 DAYS

Model	Weighing capacity	Readability	Reproducibility	Linearity	Weighing plate	Price excl. of VAT ex works €	Options	
							DAKKS KERN	DAKKS Calibr. Certificate €
	[Max] g	[d] g	g	g				
KERN								
EMS 300-3	300	0,001	0,002	± 0,005	A	300,-	963-127	103,-
EMS 3000-2	3000	0,01	0,02	± 0,05	B	260,-	963-127	103,-
EMS 6K0.1	6000	0,1	0,1	± 0,3	B	185,-	963-128	124,-
EMS 12K0.1	12000	0,1	0,1	± 0,3	B	230,-	963-128	124,-
EMS 6K1	6000	1	1	± 3	B	95,-	963-128	124,-
EMS 12K1	12000	1	1	± 3	B	100,-	963-128	124,-



2

The compact all-round model with robust stainless steel weighing plate for use in laboratories, industries, and for teaching

Features

- Thanks to its compact, robust design, its bright display and high precision, this range is ideal for use in laboratories, quality control, production as well in schools and universities for teaching
- Large, shock proof weighing plate made from stainless steel, can be removed and therefore is hygienic and easy to clean
- **1** Particularly flat design
- Ergonomically optimised key pad with large keys and a high-contrast LCD display
- **2** Secure and non-slip positioning with rubber feet
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- Adjusting program CAL for quick setting of the balance accuracy, external test weights at an additional price, see *Test weights*

Technical data

- Large backlit LCD display, digit height 22 mm
- Dimensions weighing surface, stainless steel
 - A** ø 105 mm
 - B** W×D 120×120 mm, see larger picture
- Overall dimensions W×D×H 225×160×50 mm
- Optional battery operation, 2×1.5 V AA not included in scope of delivery, operating time up to 70 h
- Mains adapter external, standard
- Net weight approx. 0,50 kg
- Permissible ambient temperature 5 °C/40 °C

Accessories

- US-Plug, KERN YKA-40-US, € 26,-

STANDARD

CAL EXT

PCS

UNIT

BATT

MULTI

DMS

1 DAY

OPTION

DAKKS

+3 DAYS

Model	Weighing capacity	Readability	Reproducibility	Linearity	Weighing plate	Price excl. of VAT ex works €	Options	
							DAKKS Calibr. Certificate	
	[Max] g	[d] g	g	g			DAKKS KERN	€
KERN								
EHA 500-2	500	0,01	0,03	± 0,03	A	93,-	963-127	103,-
EHA 500-1	500	0,1	0,3	± 0,3	A	68,-	963-127	103,-
EHA 1000-1	1000	0,1	0,3	± 0,3	B	73,-	963-127	103,-
EHA 3000-1	3000	0,1	0,3	± 0,3	B	93,-	963-127	103,-
EHA 3000-0	3000	1	3	± 2	B	68,-	963-127	103,-

WHEN DESIGN MEETS PERFORMANCE

Experience the KERN brand universe of the future with the innovative models in the KERN IoT Line – for modern, effective weighing. New pioneering KERN design, standardised and simplified operation, high levels of connectivity and stunning performance, and it works consistently across all devices. This is how we weigh today!



Design

- + Trend-setting, high-quality KERN design
- + Recognisability through uniform product range
- + Reliable brand values are reflected visually and functionally in the product



Performance

- + Cross-device functionality and protocols
- + Consistently reliable performance
- + The latest technologies
- + Cross-device functionality and protocols



Philosophy

- + Sustainable due to high energy efficiency
- + Standardisation of design components across all units
- + Controlled value chain
- + Tested and monitored technology for maximum user safety





Are you curious about the models in the KERN IoT range and what opportunities they offer?

Then take a look at the following pages, because thanks to new technologies such as KUP and KCP these models are perfectly equipped for the wide range of challenges of Industry 4.0



User Interface

- + Uniform, simplified user guidance
- + Problem-free commissioning, use and expansion
- + Cross-model software



Service

- + Fast and competent help from our IoT specialists
- + Even more efficient repair process
- + Accessories can be flexibly combined



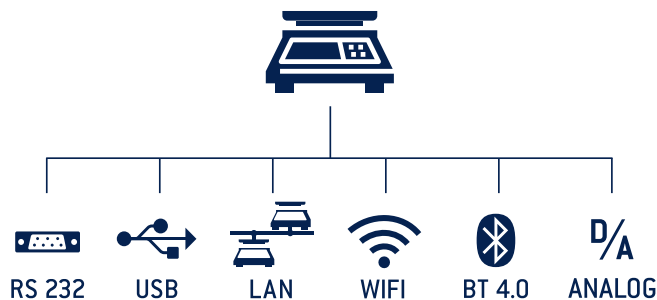
Note: Our KERN IoT accessories can be easily combined with all our IoT models.

Find the right printer and other practical accessories in *Accessories* and on the internet www.kern-sohn.com

ARE YOU READY?

With the KERN Universal Port (KUP) or the KERN Universal Module (KUM) and the KERN Communication Protocol (KCP) we ensure the perfect integration of your KERN balance into production or process chains for a complete, simplified work process. Can also be easily retrofitted without affecting the conformity evaluation.

Our products will make sure you are prepared for the future of weighing in the Internet of Things. Get IoT ready – with the IoT models from KERN.



Robust industrial models from KERN for the very best integration into workflows



KERN Universal Port (KUP)

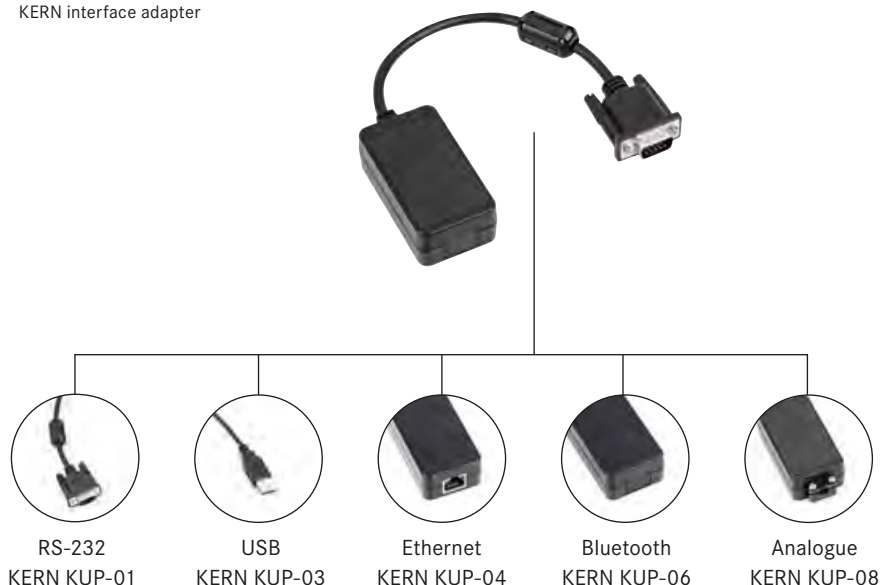
The KERN Universal Port (KUP) allows the connection of external KUP interface adapters such as RS-232, USB, Bluetooth, WiFi, Analogue, Ethernet etc.

The outstanding advantage here is that the KUP interface adapters are simply plugged in, i.e. retrofitting interfaces is conveniently possible without opening the scale housing or complicated installation.

The interface adapters enable convenient transmission of weighing data to networks, PCs, smartphones, tablets, laptops, printers etc. In addition, control commands and data inputs can also be sent to the scale via the connected devices.

The KERN Universal Module (KUM) is already built into the device and is particularly suitable for use in wet areas up to IP68.

KERN interface adapter



Still have questions?

We will be happy to give you more comprehensive information on this topic – talk to us:

Hotline +49 7433 9933-0
www.kern-sohn.com



Tip: With the KERN KUP-13 extension box, up to three KUP interface adapters can be operated in parallel on the scale.

KERN Communication Protocol (KCP)

The KERN Communication Protocol (KCP) permits searching and remote control of the balance through computers or CRM/ERP systems using the KERN Communication Protocol. KCP is a standardised interface command structure for KERN balances and other measuring instruments which allows you to recall and manage all relevant parameters and device functions. You can therefore simply connect KERN models with KCP to computers, industrial control systems and other digital systems.

In a large number of cases the KERN Communication Protocol is compatible with the MT-SICS protocol. KCP is available through all KUPs and KUMs.

KCP – Export (“Outbound”) – the Highlights

- Stable, immediate weight
- Live transfer of weights
- Storing of gross weight, tare weight, net weight, stability, date, time etc., in the tamper-proof Alibi memory
- Output of the weighing result in all available units, in percent and a free factor
- Output of the weighing result in pieces (piece counting function)
- Output of the weighing value at freely definable intervals
- and much more

KCP – Import (“Inbound”) – the Highlights

- Recall of the central device data
- Setup or recall of an individual device ID number
- Setting or searching for a tare value (pre-tare value) externally
- Recall of stored weighing results from the alibi memory
- Setting the reference values in the balance for outputting the weighing result in percent or in pieces
- Setting a network address for the balance (IP) – also for WiFi
- and much more

3



PRECISION BALANCES

Here you'll find a complete summary of the KERN laboratory scales series and their positioning within the precision scales segment on the basis of application, price-performance ratio and functional volume

KERN Basic laboratory balances

are used in laboratory applications mostly as single-user balances for sample preparation, etc. They are fitted with all useful laboratory functions which will support the user in a helpful way. With their strain gauge measuring principle, they are used anywhere where individual weighings are carried out, such as, for example, checkweighing. These devices are often connected to printers or local PCs using the standard, integrated RS-232 data interface.

KERN Basic standard laboratory balances

offer you all the tools you would need for effective and accurate work in your laboratory environment. All important laboratory functions such as a recipe weighing function or data interfaces are on board at all times. But above all, the high-quality measuring principles of these balances such as force compensation or tuning fork measuring principle, allow them to be used in dosing procedures with very small weight changes and rapid display. In addition these balances are often fitted with automatic internal adjustment, which means the balance can be used in any location.

KERN premium laboratory balances

are right at the top of the precision balance segment. The numerous equipment features of the standard balances are complemented by high-quality materials with robust, sturdy construction, high-quality, high-performance weighing systems, optimised operating sequences, speed benefits.

Tip: Together with the innovative KERN EasyTouch app, a premium laboratory balance supports its users in their typical workflows and increases the range of functions of the balance. In this way these scales can be operated more efficiently and quickly than devices from other quality classes. In particular, these balances are used in demanding laboratory applications and anywhere where the environmental conditions are not ideal because of vibrations or other interference, but where, naturally, the balance is expected to provide accurate weighing results. Another field of application for these balances is the pharmaceutical industry, which is subject to particularly demanding requirements such as, for example, the GLP (Good Laboratory Practice).

If you have further questions on the subject of "Which balance is best for my application?", then please ask your personal KERN Category Manager who will be happy to help you.



Digital weighing data – with KERN EasyTouch

Discover KERN EasyTouch - innovative software, which combines the precision of our tried and tested KERN balances with the versatility of Windows or Android environments.

What benefits does KERN EasyTouch offer?

- Digital processing and saving of weighing data directly in the process
- Greater efficiency through streamlined workflows
- Increased safety for critical processes
- Unlimited master data memory
- Central, secure data storage (tamper-proof and traceable at any time)
- Interfaces to Excel, ERP, PPS and CRM systems

This is how KERN EasyTouch works:

1. Collection of weighing and measuring data using an appropriate measuring device
2. Transfer, saving and processing in relation to master data such as item data, order data, batch data and user data
3. Output or transfer of data to connected systems or peripheral devices

Tip: Turn your balance into a powerful weighing system!

Using the KERN EasyTouch App even a simple single balance can be made into a powerful weighing system, which offers a range of functions. To do this you simply have to install the KERN EasyTouch App on your PC or tablet (Windows® or Android™), connect the balance (either with cable or wireless), activate the App and you will be able to control your balance using your PC or tablet straightaway (see page 136).

This symbol will show you which balances are compatible with EasyTouch



Quick-finder Precision Balances

Readability [d] g	Weighing capacity [Max] g	Model	Price excl. of VAT ex works €	Page	         									
					For an explanation on the pictos, see the front flap									
0,001	120	PFB 120-3	370,-	25										
0,001	200	PCB 200-3	310,-	26										
0,001	200	PFB 200-3	390,-	25										
0,001	220	EW 220-3NM	840,-	34										
0,001	220	EG 220-3NM	1060,-	34	○	●								
0,001	240	572-30	750,-	31										
0,001	250	PCD 250-3	350,-	24										
0,001	300	PFB 300-3	420,-	25										
0,001	300	EWJ 300-3	580,-	30										
0,001	300	EWJ 300-3H	600,-	30										
0,001	300	572-31	765,-	31										
0,001	320	PDS 300-3	1200,-	38										
0,001	320	PDT 300-3	1400,-	38										
0,001	350	PCD 300-3	390,-	24										
0,001	360	PCB 300-3	320,-	26										
0,001	420	572-32	775,-	31										
0,001	420	PLS 420-3F	860,-	32										
0,001	420	PLJ 420-3F	960,-	32										
0,001	420	EW 420-3NM	970,-	34										
0,001	420	EG 420-3NM	1160,-	34	○	●								
0,001	600	PFB 600-3	500,-	25										
0,001	600	EWJ 600-3	690,-	30										
0,001	620	PNS 600-3	820,-	33										
0,001	620	PNJ 600-3M	950,-	33	○	●								
0,001	620	EW 620-3NM	1080,-	34										
0,001	620	EG 620-3NM	1300,-	34	○	●								
0,001	620	PES 620-3M	1500,-	36										
0,001	620	PBS 620-3M	1750,-	37										
0,001	620	PEJ 620-3M	1800,-	36	○	●								
0,001	620	PBJ 620-3M	2050,-	37	○	●								
0,001	620	PDS 600-3	1740,-	38										
0,001	620	PDT 600-3	1940,-	38										
0,001	720	PLS 720-3A	1170,-	32										
0,001	720	PLJ 720-3A	1280,-	32										
0,001	1020	PDS 1000-3	2100,-	38										
0,001	1020	PDT 1000-3	2300,-	38										
0,001	1200	PLS 1200-3A	1200,-	32										
0,001	1200	PLJ 1200-3A	1360,-	32										
0,001	2100	PLJ 2000-3A	1880,-	32										
0,01	300	PCB 300-2	250,-	26										
0,01	600	PFB 600-2	320,-	25										
0,01	600	PCJ 600-2M	420,-	28	○	●								
0,01	600	EWJ 600-2SM	470,-	30	○	●								
0,01	600	EWJ 600-2M	500,-	30	○	●								
0,01	820	EW 820-2NM	760,-	34										
0,01	820	PWS 800-2	1160,-	35										
0,01	1200	PFB 1200-2	320,-	25										
0,01	1200	PCB 1000-2	290,-	26										
0,01	1600	572-33	735,-	31										
0,01	2000	PFB 2000-2	340,-	25										
0,01	2200	EW 2200-2NM	930,-	34										
0,01	2200	PES 2200-2M	1060,-	36										
0,01	2200	EG 2200-2NM	1110,-	34	○	●								
0,01	2200	PEJ 2200-2M	1350,-	36	○	●								
0,01	2200	PDS 2000-2	1300,-	38										
0,01	2200	PDT 2000-2	1500,-	38										
0,01	2400	572-35	750,-	31										
0,01	2500	PCD 2500-2	350,-	24										
0,01	3000	PFB 3000-2	370,-	25										
0,01	3000	EWJ 3000-2	530,-	30										
0,01	3000	572-37	765,-	31										
0,01	3200	PNS 3000-2	740,-	33										
0,01	3200	PNJ 3000-2M	890,-	33	○	●								
0,01	3500	PCD 3000-2	390,-	24										
0,01	3600	PCB 3000-2	310,-	26										
0,01	4200	572-39	775,-	31										
0,01	4200	PLS 4200-2F	820,-	32										
0,01	4200	PLJ 4200-2F	930,-	32										
0,01	4200	EW 4200-2NM	1030,-	34										
0,01	4200	EG 4200-2NM	1220,-	34	○	●								
0,01	4200	PES 4200-2M	1250,-	36										

■ News 2025

● Standard ○ Option

Quick-finder Precision Balances

Readability	Weighing capacity	Model	Price excl. of VAT	Page	         									
[d] g	[Max] g	KERN	€		For an explanation on the pictos, see the front flap									
0,01	4200	PBS 4200-2M	1540,-	37										
0,01	4200	PEJ 4200-2M	1550,-	36	○	●								
0,01	4200	PBJ 4200-2M	1900,-	37	○	●								
0,01	4200	PDS 4000-2	1500,-	38										
0,01	4200	PDT 4000-2	1700,-	38		●								
0,01	6000	PFB 6000-2	450,-	25										
0,01	6000	EWJ 6000-2	640,-	30		●								○
0,01	6200	EW 6200-2NM	1120,-	34										○
0,01	6200	PLS 6200-2A	1150,-	32										
0,01	6200	PLJ 6200-2A	1280,-	32		●								
0,01	6200	PES 6200-2M	1550,-	36										
0,01	6200	PBS 6200-2M	1850,-	37										
0,01	6200	PBJ 6200-2M	2300,-	37	○	●								
0,01	6200	PDS 6000-2	1720,-	38										
0,01	6200	PDT 6000-2	1920,-	38		●								
0,01	8200	PLS 8000-2A	1400,-	32										
0,05	12000	572-45	750,-	31										○
0,05	20000	572-55	770,-	31										○
0,1	2000	PCB 2000-1	230,-	26										○
0,1	3200	PWS 3000-1	1020,-	35										○
0,1	6000	PCD 6K-4	270,-	24										○
0,1	6000	PCB 6000-1	250,-	26										○
0,1	6000	PFB 6000-1	300,-	25										○
0,1	6000	PCJ 6000-1M	440,-	28	○	●								○
0,1	6000	EWJ 6000-1SM	450,-	30	○	●								○
0,1	6000	EWJ 6000-1M	480,-	30	○	●								○
0,1	8200	PWS 8000-1	1150,-	35										○
0,1	8200	PBJ 8200-1M	1890,-	37	○	●								
0,1	10000	PCD 10K0.1	290,-	24										○
0,1	10000	PCB 10000-1	260,-	26										○
0,1	10000	572-43	730,-	31										○
0,1	12000	PNS 12000-1	720,-	33										
0,1	12000	PNJ 12000-1M	870,-	33	○	●								
0,1	12000	EW 12000-1NM	880,-	34										○
0,1	15000	PES 15000-1M	1480,-	36										
0,1	16000	572-49	735,-	31										○
0,1	17000	FES 17K-4	2850,-	40										○
0,1	17000	FEJ 17K-4M	3080,-	40	○	●								○
0,1	20000	PLS 20000-1F	750,-	32										
0,1	24000	572-57	760,-	31										○
0,1	31000	PES 31000-1M	2450,-	36										
0,1	33000	FES 33K-4	3000,-	40										○
0,1	33000	FEJ 33K-4M	3340,-	40	○	●								○
0,1 1	6200 62000	FES 62K-4D	3300,-	40										○
0,1 1	6200 62000	FEJ 62K-4DM	3650,-	40	○	●								○
1	6000	PCB 6000-0	170,-	26										○
1	10000	PCD 10K-3	210,-	24										○

News 2025

● Standard ○ Option



High-resolution precision balance with removable display for maximum flexibility

Features

- Laboratory balance with separate platform: Ideal when working in a glove bag or fume cupboard. Particularly practical for weighing toxic, volatile or contaminated substances
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- **A** Draught shield standard for models with weighing plate size **A**, weighing space W×D×H 146×146×80 mm
- Protective working cover included with delivery

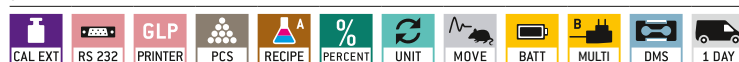
Technical data

- Large backlit LCD display, digit height 21 mm
- Dimensions weighing surface
 - A** ø 105 mm, plastic, with conductive lacquer
 - B** W×D 160×160 mm, stainless steel, see larger picture
- Optional battery operation, 9 V block not included in scope of delivery, operating time up to 12 h, AUTO-OFF function to preserve the battery
- Dimensions of display device W×D×H 140×82×46 mm
- Cable length of display device approx. 1,2 m
- Net weight approx. 1,2 kg
- Permissible ambient temperature 5 °C/35 °C

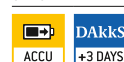
Accessories

- Protective working cover over the display device, scope of delivery 5 items, KERN PCD-A05S05, **€ 52,-**
- **2** Stand to elevate display device, height of stand approx. 250 mm, KERN PCD-A03, **€ 66,-**
- Internal rechargeable battery pack, operating time up to 24 h without backlight, charging time approx. 10 h, KERN PCD-A04, **€ 60,-**
- **3** Foot switch, ideal when the application requires two free hands. TARE or PRINT function can be selected. Scope of delivery: foot switch, junction box, connection cable. For the PRINT function you will need the RS-232 interface cable, KERN YKF-01, **€ 100,-**
- Individual header data: the free software can be used to print 4 header lines on the printout when using printers 911-013 and YKN-01
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Overall dimensions W×D×H mm	Weighing plate	Price excl. of VAT ex works €	Options	
								DAKKS KERN	DAKKS Calibr. Certificate
	g	g	g	g					€
KERN									
PCD 250-3	250	0,001	0,002	± 0,005	165×280×141	A	350,-	963-127	103,-
PCD 300-3	350	0,001	0,002	± 0,005	165×280×141	A	390,-	963-127	103,-
PCD 2500-2	2500	0,01	0,02	± 0,05	165×280×75	B	350,-	963-127	103,-
PCD 3000-2	3500	0,01	0,02	± 0,05	165×280×75	B	390,-	963-127	103,-
PCD 6K-4	6000	0,1	0,1	± 0,3	165×280×75	B	270,-	963-128	124,-
PCD 10K0.1	10000	0,1	0,1	± 0,3	165×280×75	B	290,-	963-128	124,-
PCD 10K-3	10000	1	1	± 3	165×280×75	B	210,-	963-128	124,-



Quick-display precision balance with user-friendly concept of operation mode – now also with checkweighing function

Features

- KERN PFB 600-3, PFB 6000-2: The measuring system's exceptionally high resolution of 600.000 points ensures the highest level of accuracy with large weighing ranges
- Weighing with tolerance range: a visual and audible signal helps with portioning, dispensing or grading
- Standardised, convenient KERN concept of operation: All primary functions have their own key on the keypad
- Compact size
- Capacity display: A bargraph display lights up to show how much of the weighing range is still available
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard, to give the most accurate weighing result

- Draught shield standard for models with weighing plate size **A**, **B**, removable, weighing space W×D×H 140×150×65 mm

Technical data

- Backlit LCD display, digit height 21 mm
- Dimensions weighing surface, stainless steel
 - A** Ø 80 mm
 - B** Ø 120 mm
 - C** W×D 190×180 mm, see larger picture
- Overall dimensions W×D×H 210×315×90 mm
- Permissible ambient temperature 15 °C/30 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN PFB-A12S05, **€ 52,-**
- Internal rechargeable battery pack, operating time up to 72 h without backlight, charging time approx. 6,5 h, must be ordered at purchase, KERN EWJ-A06, **€ 45,-**
- Bluetooth data interface for wireless data transfer to PC or tablets, supports Bluetooth 2.0 and 4.0, must be ordered at purchase, KERN PFB-A10, **€ 100,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Resolution	Weighing plate	Price excl. of VAT ex works €	Options	
								DAKKS Calibr. Certificate	
KERN	g	g	g	g	Points		€	DAKKS KERN	€
PFB 120-3	120	0,001	0,002	± 0,003	120.000	A	370,-	963-127	103,-
PFB 200-3	200	0,001	0,002	± 0,004	200.000	A	390,-	963-127	103,-
PFB 300-3	300	0,001	0,003	± 0,005	300.000	A	420,-	963-127	103,-
PFB 600-3	600	0,001	0,005	± 0,005	600.000	B	500,-	963-103	170,-
PFB 600-2	600	0,01	0,01	± 0,02	60.000	B	320,-	963-127	103,-
PFB 1200-2	1200	0,01	0,02	± 0,03	120.000	B	320,-	963-127	103,-
PFB 2000-2	2000	0,01	0,02	± 0,04	200.000	B	340,-	963-127	103,-
PFB 3000-2	3000	0,01	0,03	± 0,05	300.000	B	370,-	963-127	103,-
PFB 6000-2	6000	0,01	0,05	± 0,07	600.000	C	450,-	963-104	193,-
PFB 6000-1	6000	0,1	0,1	± 0,2	60.000	C	300,-	963-128	124,-



The standard in the laboratory, ideal for a wide range of applications for Industry 4.0

Features

- Compatible with school-specific software solutions such as, for example, Vernier® or LabQuest®. Thanks to the KERN School Protocol, as part of technical experiments, weighing data can be transferred to a PC, laptop, etc. for evaluation and display using the USB data interface
- KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- For further information on KUP and KCP see page 18/19
- Standardised, simplified concept of operation
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- With the recipe function you can weigh the different ingredients of a mixture. As a check, you can also call up the total weight of all the ingredients
- Weighing with tolerance range: a visual and audible signal helps with portioning, dispensing or grading
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar
- A special Anti-Shock system between the weighing plate and weighing cell reduces vibrations during the weighing process and in this way ensures rapid, reliable weighing results
- **A** Ring-shaped draught shield standard, only for models with weighing plate size **A**, weighing space $\varnothing \times H$ 90×40 mm
- Protective working cover included with delivery



A



B



C

3

Technical data

- Backlit LCD display, digit height 21 mm
- Dimensions weighing surface
 - A** $\varnothing$ 82 mm
 - B** $\varnothing$ 105 mm
 - C** W×D 130×130 mm
 - D** W×D 150×170 mm, see larger picture
- Weighing plate material
 - A** plastic, with conductive lacquer
 - B, C, D** stainless steel
- Overall dimensions (without draught shield)
W×D×H 163×245×65 mm
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 20 h. AUTO-OFF function to preserve the battery
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN YBA-A12S05, **€ 52,-**
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, **€ 35,-**
- RS-232 interface adapter, KERN KUP-01, **€ 60,-**
- USB interface adapter, KERN KUP-03, **€ 75,-**
- Ethernet interface adapter, KERN KUP-04, **€ 115,-**
- WiFi interface adapter, KERN KUP-05, **€ 75,-**
- Bluetooth interface adapter, KERN KUP-06, **€ 99,-**
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13, **€ 75,-**
- BalanceConnection software for flexible measured value recording or transmission, compatible with Microsoft® Excel, Access and other applications, Scope of supplies: Download link for 1 license, KERN SCD-4.0-DL, **€ 210,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Resolution	Weighing plate	Price excl. of VAT ex works €	Options	
								DAKkS Calibr. Certificate	
KERN	g	g	g	g	Points		€	DAKkS KERN	€
PCB 200-3	200	0,001	0,001	± 0,005	200.000	A	310,-	963-127	103,-
PCB 300-3	360	0,001	0,001	± 0,005	360.000	A	320,-	963-127	103,-
PCB 300-2	300	0,01	0,01	± 0,02	30.000	B	250,-	963-127	103,-
PCB 1000-2	1200	0,01	0,01	± 0,03	120.000	C	290,-	963-127	103,-
PCB 3000-2	3600	0,01	0,02	± 0,05	360.000	C	310,-	963-127	103,-
PCB 2000-1	2000	0,1	0,1	± 0,2	20.000	C	230,-	963-127	103,-
PCB 6000-1	6000	0,1	0,1	± 0,3	60.000	D	250,-	963-128	124,-
PCB 10000-1	10000	0,1	0,1	± 0,3	100.000	D	260,-	963-128	124,-
PCB 6000-0	6000	1	1	± 2	6.000	D	170,-	963-128	124,-



3



PCJ 6000-1M

PCJ 600-2M



Precision balance with alibi memory and optional verification



Internal adjustment using the rotary control on the side guarantees a high degree of accuracy and means it can be used in any location

Features

- With alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further
- The balance can be adjusted in battery operation without the need for mains power
- Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- Menu with a large number of settings which can be adapted to your requirements. For example, you can specify button tones, assign a button with different functions for rapid access and adapt the print protocol as necessary
- Menu block prevents access by unauthorised users
- Ideal for connection to laboratory information systems (LIMS)
- GLP/ISO record keeping of weighing data, balance adjustment, etc. with date, time and identification number
- KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- For further information on KUP and KCP see page 18/19
- Hook for underfloor weighing included with the delivery
- Protective working cover included with delivery

Technical data

- Backlit LCD display, digit height 21 mm
- Dimensions weighing surface, stainless steel
A W×D 131×131 mm
B W×D 150×170 mm
- Overall dimensions W×D×H 163×245×80 mm
- Battery operation, 4×1.5 V AA standard, operating time up to 20 h
- Permissible ambient temperature 15 °C/35 °C

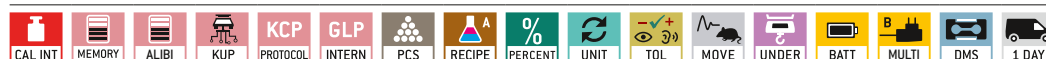
Accessories

- Protective working cover, scope of delivery 5 items, KERN YBA-A12S05, **€ 52,-**
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, **€ 35,-**
- External universal mains adapter, with universal input and optional input socket adapters for EU, CH, GB, US, KERN YKA-24, **€ 43,-**
- RS-232 interface adapter, KERN KUP-01, **€ 60,-**
- USB interface adapter, KERN KUP-03, **€ 75,-**
- Ethernet interface adapter, KERN KUP-04, **€ 115,-**
- WiFi interface adapter, KERN KUP-05, **€ 75,-**
- Bluetooth interface adapter, KERN KUP-06, **€ 99,-**
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13, **€ 75,-**
- BalanceConnection software for flexible measured value recording or transmission, compatible with Microsoft® Excel, Access and other applications, Scope of supplies: Download link for 1 license, KERN SCD-4.0-DL, **€ 210,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

The main scope of applications is:

- Laboratories
- Chemists
- Jewellers
- Pharmaceutical industry

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Linearity	Weighing plate	Net weight	Price excl. of VAT ex works €	Options			
									Verification	€	DAKKS Calibr.	Certificate
KERN	g	g	g	g	g		kg		MIT KERN		DAKKS KERN	€
PCJ 600-2M	600	0,01	0,1	0,5	± 0,03	A	2,0	420,-	965-216	85,-	963-127	103,-
PCJ 6000-1M	6000	0,1	1	5	± 0,3	B	2,8	440,-	965-217	99,-	963-128	124,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.



High-quality precision balance with automatic internal adjustment, verification optional

Features

- EWJ 600-3/EWJ 6000-2: The measuring system's exceptionally high resolution of 600.000 points ensures the highest level of accuracy with large weighing ranges
- Weighing with tolerance range: a visual and audible signal helps with portioning, dispensing or grading
- Standardised, convenient KERN concept of operation: All primary functions have their own key on the keypad
- Automatic internal adjustment, time-controlled every 2 h, guarantees high degree of accuracy and makes the balance independent of its location

- Capacity display: A bargraph display lights up to show how much of the weighing range is still available
- KERN EWJ/-H/-M: USB data interface for transferring weighing data to the PC, printer etc.
- Small draught shield as standard for models with weighing plate size **A**, **B**, removable, weighing space W×D×H 134×128×80 mm
- 1** KERN EWJ 300-3H: Large glass draught shield with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 155×175×217 mm
- Protective working cover included with delivery



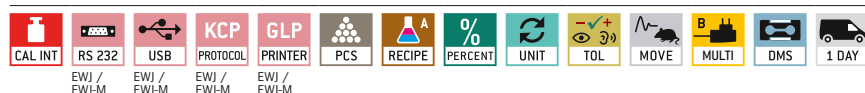
Technical data

- Large LCD display, digit height 21 mm
- Dimensions weighing surface, stainless steel
 - A** Ø 80 mm
 - B** Ø 120 mm
 - C** Ø 135 mm, see larger picture
 - D** W×D 155×145 mm
- Permissible ambient temperature
 - KERN EWJ: 10 °C/35 °C
 - KERN EWJ-M: 10 °C/35 °C

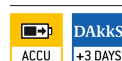
Accessories

- Protective working cover, scope of delivery 5 items, KERN EWJ-A04S05, **€ 52,-**
- Internal rechargeable battery pack, operating time up to 57 h without backlight, charging time approx. 6,5 h, KERN EWJ-A06, **€ 45,-**
- Bluetooth data interface for wireless data transfer to PC or tablets, supports Bluetooth 2.0 and 4.0, must be ordered at purchase, KERN PFB-A10, **€ 100,-**
- KERN EWJ/-H/-M: BalanceConnection software for flexible measured value recording or transmission, compatible with Microsoft® Excel, Access and other applications, Scope of supplies: Download link for 1 license, KERN SCD-4.0-DL, **€ 210,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

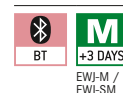
STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max] g	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Overall dimensions W×D×H mm	Weighing plate	Price excl. of VAT ex works €	Options			
									Verification	€	DAkkS Calibr. Certificate	€
KERN									M KERN		DAkkS KERN	
EWJ 300-3H	300	0,001	-	-	± 0,005	220×340×321	A	600,-	-	-	963-127	103,-
EWJ 300-3	300	0,001	-	-	± 0,005	220×340×90	A	580,-	-	-	963-127	103,-
EWJ 600-3	600	0,001	-	-	± 0,005	220×340×105	B	690,-	-	-	963-103	170,-
EWJ 3000-2	3000	0,01	-	-	± 0,05	220×340×105	C	530,-	-	-	963-127	103,-
EWJ 6000-2	6000	0,01	-	-	± 0,05	220×340×105	D	640,-	-	-	963-104	193,-
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.												
EWJ 600-2M	600	0,01	0,1	0,5	± 0,03	220×340×90	B	500,-	965-216	85,-	963-127	103,-
EWJ 6000-1M	6000	0,1	1	5	± 0,3	220×340×105	D	480,-	965-217	99,-	963-128	124,-
Variants without data interfaces												
EWJ 600-2SM	600	0,01	0,1	0,5	± 0,03	220×340×90	B	470,-	965-216	85,-	963-127	103,-
EWJ 6000-1SM	6000	0,1	1	5	± 0,3	220×340×105	D	450,-	965-217	99,-	963-128	124,-



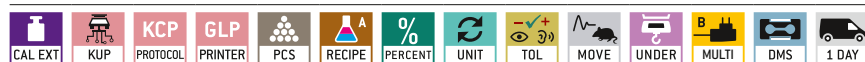
All-rounder, e.g. as precision balance in the laboratory or in harsh industrial applications, ideal for the diverse possibilities of Industry 4.0 applications

Features

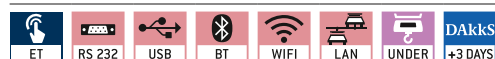
- Thanks to the many typical laboratory functions combined with the high level of precision, the KERN 572 is a reliable partner for day-to-day work in the laboratory
- Many typical industrial functions, such as piece-counting and vibrationfree weighing also make these balances ideal for all industrial applications, where a high level of precision is required
- KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay

- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- For further information on KUP and KCP see page 18/19
- Standardised, simplified concept of operation
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar
- The robust aluminium diecast housing maintains the stability, protects the weighing technology elements and is robust enough to cope with everyday use

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Resolution	Weighing plate	Price excl. of VAT ex works €	Options	
								DAKKS	Calibr. Certificate
KERN	g	g	g	g	Points		€	KERN	€
572-30	240	0,001	0,001	± 0,003	240.000	A	750,-	963-127	103,-
572-31	300	0,001	0,002	± 0,005	300.000	A	765,-	963-127	103,-
572-32	420	0,001	0,002	± 0,005	420.000	A	775,-	963-127	103,-
572-33	1600	0,01	0,01	± 0,03	160.000	B	735,-	963-127	103,-
572-35	2400	0,01	0,01	± 0,03	240.000	B	750,-	963-127	103,-
572-37	3000	0,01	0,02	± 0,05	300.000	B	765,-	963-127	103,-
572-39	4200	0,01	0,02	± 0,05	420.000	B	775,-	963-127	103,-
572-45	12000	0,05	0,05	± 0,15	240.000	C	750,-	963-128	124,-
572-55	20000	0,05	0,1	± 0,25	400.000	C	770,-	963-128	124,-
572-43	10000	0,1	0,1	± 0,3	100.000	C	730,-	963-128	124,-
572-49	16000	0,1	0,1	± 0,3	160.000	C	735,-	963-128	124,-
572-57	24000	0,1	0,1	± 0,3	240.000	C	760,-	963-128	124,-

- A Ring-shaped draught shield standard, only for models with weighing plate size A, weighing space $\varnothing \times H$ 157×43 mm
- Level indicator to level the balance precisely
- Load support on the underside of the balance for models. Loop for underfloor weighing, standard for models with weighing plate size A
- Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 21 mm
- Dimensions weighing surface, stainless steel
 - A $\varnothing$ 106 mm
 - B $\varnothing$ 150 mm
 - C W×D 160×200 mm, see larger picture
- Overall dimensions W×D×H 180×310×85 mm
- Net weight A, B approx. 2,4 kg C approx. 2,8 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN 572-A02S05, € 52,-
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, € 35,-
- Interface adapter,
 - RS-232, KERN KUP-01, € 60,-
 - USB, KERN KUP-03, € 75,-
 - Ethernet, KERN KUP-04, € 115,-
 - WiFi, KERN KUP-05, € 75,-
 - Bluetooth, KERN KUP-06, € 99,-
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13, € 75,-
- B, C Hook for underfloor weighing, KERN 572-A03, € 25,-
- Large glass draught shield with 3 sliding doors for easy access to the items being weighed for models with weighing plate size A, weighing space W×D×H 150×140×130 mm, KERN 572-A05, € 250,-



High-quality precision scale with comfortable graphic display and enormous weighing range

Features

- **1** Convenient recipe-weighing with the recipe database, up to 99 recipes can be stored, each with up to 20 recipe ingredients with name and target value
- Internal memory for complete recipes with name and target value of the recipe ingredients
- Dosage aid: High stability mode and other filter settings can be selected
- Rapid and efficient operation thanks to the graphics display
- Simple, clear user interface on the display in the following languages: DE, EN, FR, IT, ES, PT

- KERN PLJ: Automatic internal adjustment, guarantees high degree of accuracy and makes the balance independent of its location of use. Ideal for applications which require verification
- **2** KERN PLJ 2000-3A: High-quality milligram balance with enormous weighing range up to 2100 g – ideal for large samples or heavy tare containers. Large glass draught shield for easy access to the items being weighed. Weighing space W×D×H 160×170×225 mm
- **A** Ring-shaped draught shield standard, only for models with weighing plate size **A**, weighing space Ø×H 150×60 mm
- Protective working cover included with delivery



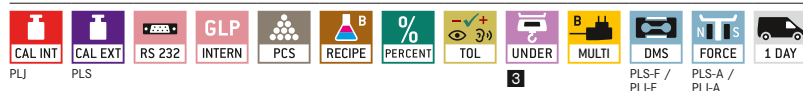
Technical data

- Backlit LCD graphic display, digit height 15 mm
- Dimensions weighing surface, stainless steel
 - A** Ø 110 mm
 - B** Ø 160 mm, see larger picture
 - C** W×D 200×175 mm
- Permissible ambient temperature 15 °C/35 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN PLJ-A01S05, **€ 52,-**
- **3** Hook for underfloor weighing, KERN PLJ-A02, **€ 32,-**
- Set for density determination of liquids and solids for models with [d] = 0,001 g, KERN ALT-A02, **€ 750,-**
- Minimum weight of sample, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, **€ 10,-**
- Equipment qualification: compliant qualification concept with Installation and Operating Qualification (IQ, OQ), for details see page 222

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Overall dimensions W×D×H mm	Net weight kg	Weighing plate	Price excl. of VAT ex works €	Options	
									DAkkS Calibr. Certificate	
KERN	g	g	g	g	mm	kg		€	DAkkS KERN	€
Models with external adjustment										
PLS 420-3F	420	0,001	0,001	± 0,004	210×340×160	3,2	A	860,-	963-127	103,-
PLS 720-3A	720	0,001	0,001	± 0,002	210×340×160	4,8	A	1170,-	963-103	170,-
PLS 1200-3A	1200	0,001	0,001	± 0,003	210×340×160	4,8	A	1200,-	963-103	170,-
PLS 4200-2F	4200	0,01	0,01	± 0,04	210×340×120	3,2	B	820,-	963-127	103,-
PLS 6200-2A	6200	0,01	0,01	± 0,03	210×340×120	4,8	B	1150,-	963-104	193,-
PLS 8000-2A	8200	0,01	0,01	± 0,04	210×340×120	4,8	B	1400,-	963-104	193,-
PLS 20000-1F	20000	0,1	0,1	± 0,4	210×340×120	3,2	C	750,-	963-128	124,-
Models with internal adjustment										
PLJ 420-3F	420	0,001	0,001	± 0,003	210×340×160	5,0	A	960,-	963-127	103,-
PLJ 720-3A	720	0,001	0,001	± 0,002	210×340×160	5,0	A	1280,-	963-103	170,-
PLJ 1200-3A	1200	0,001	0,001	± 0,003	210×340×160	5,0	A	1360,-	963-103	170,-
PLJ 2000-3A	2100	0,001	0,002	± 0,004	210×340×330	7	A	1880,-	963-103	170,-
PLJ 4200-2F	4200	0,01	0,02	± 0,04	210×340×120	5,0	B	930,-	963-127	103,-
PLJ 6200-2A	6200	0,01	0,01	± 0,05	210×340×120	5,0	B	1280,-	963-104	193,-



The new standard in the laboratory with robust tuning fork weighing system, with optional verification

Features

- KERN PNS: Adjusting program CAL for quick setting of the balance accuracy, external test weights at an additional price, see test weights
- KERN PNJ: Automatic internal adjustment, guarantees high degree of accuracy and makes the balance independent of its location of use. Ideal for applications which require verification
- High-quality tuning fork weighing system for rapid display of the weight, very precise dispensing and a high level of mechanical robustness
- Capacity display: A bargraph display lights up to show how much of the weighing range is still available
- The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Compact size
- Large, shock proof weighing plate made of stainless steel

- **A** Large glass draught shield with 3 sliding doors for easy access to the items being weighed: for models with weighing plate size **A**, weighing space W×D×H 172×171×160 mm
- Protective working cover included with delivery

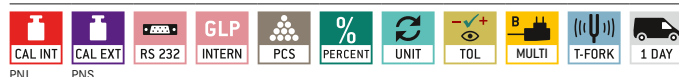
Technical data

- Large LCD display, digit height 16,5 mm
- Dimensions weighing surface, stainless steel
A Ø 140 mm
B W×D 190×190 mm, see larger picture
- Overall dimensions W×D×H
A 196×293×266 mm
B 196×293×89 mm
- Permissible ambient temperature 5 °C/40 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN PNJ-A01S05, **€ 52,-**
- **1** Gemstones plate, aluminium with practical spout, W×D×H 130×80×30 mm, KERN AEJ-A05, **€ 43,-**
- Minimum weight of sample, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, **€ 10,-**
- Equipment qualification: compliant qualification concept with Installation and Operating Qualification (IQ, OQ), for details see page 222
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Linearity	Weighing plate	Net weight	Price excl. of VAT ex works €	Options			
									Verification		DAkkS Calibr. Certificate	
KERN	g	g	g	g	g		kg	€	MIL KERN	€	DAkkS KERN	€
PNS 600-3	620	0,001	-	-	± 0,004	A	2,2	820,-	-	-	963-103	170,-
PNS 3000-2	3200	0,01	-	-	± 0,02	B	2,8	740,-	-	-	963-127	103,-
PNS 12000-1	12000	0,1	-	-	± 0,2	B	2,8	720,-	-	-	963-128	124,-
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.												
PNJ 600-3M	620	0,001	0,01	0,02	± 0,004	A	4,2	950,-	965-216	85,-	963-103	170,-
PNJ 3000-2M	3200	0,01	0,1	0,5	± 0,02	B	3,6	890,-	965-216	85,-	963-127	103,-
PNJ 12000-1M	12000	0,1	1	5	± 0,2	B	3,8	870,-	965-217	99,-	963-128	124,-



The classic balance with robust tuning fork measuring system

Features

- 1 KERN EG: Internal adjustment in the case of a change in temperature and time-controlled at defined intervals, guarantees high degree of accuracy and makes the balance independent of its location of use
- Stable temperature behaviour
- Short stabilisation time
- Shock proof construction
- High corner load performance
- Capacity display: A bargraph display lights up to show how much of the weighing range is still available
- Totalising of pieces when counting

- A Draught shield standard for models with weighing plate size A, weighing space W×D×H 158×130×78 mm
- Protective working cover included with delivery

Technical data

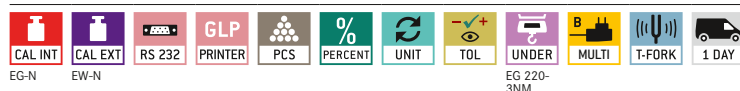
- Large LCD display, digit height 17 mm
- Dimensions weighing surface, stainless steel
 - A Ø 118 mm, see larger picture
 - B W×D 170×140 mm
 - C W×D 180×160 mm
- Overall dimensions W×D×H
 - A 185×235×165 mm
 - B, C 180×235×75 mm
- Permissible ambient temperature 10 °C/30 °C



Accessories

- Protective working cover, scope of delivery 5 items, for models with weighing plate size
 - A, B KERN EG-A05S05, € 52,-
 - C KERN EG-A09S05, € 52,-
- Internal rechargeable battery pack, operating time up to 12 h with backlight, charging time approx. 12 h, for models with weighing plate size
 - A, B KERN EG-A04, € 130,-
 - C KERN EG-A06, € 130,-
- 2 Large glass draught shield with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 150×140×130 mm, KERN EG-A03, € 260,-
- Loop for underfloor weighing, for models with weighing plate size
 - A, B KERN EG-A07, € 46,-
 - C KERN EG-A08, € 46,-
- Minimum weight of sample, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, € 10,-
- Equipment qualification: compliant qualification concept with Installation and Operating Qualification (IQ, OQ), for details see page 222
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Linearity	Weighing plate	Net weight	Price excl. of VAT ex works €	Options			
									Verification	€	DAkkS Calibr. Certificate	€
KERN	g	g	g	g	g		kg		M KERN		DAkkS KERN	
EW 220-3NM	220	0,001	-	-	± 0,002	A	1,4	840,-	-	-	963-127	103,-
EW 420-3NM	420	0,001	-	-	± 0,003	A	1,4	970,-	-	-	963-127	103,-
EW 620-3NM	620	0,001	-	-	± 0,003	A	1,4	1080,-	-	-	963-103	170,-
EW 820-2NM	820	0,01	-	-	± 0,01	B	1,6	760,-	-	-	963-127	103,-
EW 2200-2NM	2200	0,01	-	-	± 0,01	C	3,0	930,-	-	-	963-127	103,-
EW 4200-2NM	4200	0,01	-	-	± 0,02	C	3,0	1030,-	-	-	963-127	103,-
EW 6200-2NM	6200	0,01	-	-	± 0,03	C	3,0	1120,-	-	-	963-104	193,-
EW 12000-1NM	12000	0,1	-	-	± 0,2	C	3,0	880,-	-	-	963-128	124,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.

The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

EG 220-3NM	220	0,001	0,01	0,02	± 0,002	A	2,0	1060,-	965-216	85,-	963-127	103,-
EG 420-3NM	420	0,001	0,01	0,02	± 0,003	A	1,8	1160,-	965-216	85,-	963-127	103,-
EG 620-3NM	620	0,001	0,01	0,1	± 0,004	A	2,0	1300,-	965-201	150,-	963-103	170,-
EG 2200-2NM	2200	0,01	0,1	0,5	± 0,01	C	4,0	1110,-	965-216	85,-	963-127	103,-
EG 4200-2NM	4200	0,01	0,1	0,5	± 0,02	C	4,0	1220,-	965-216	85,-	963-127	103,-



High-resolution precision balance made of stainless steel with IP protection

Features

- High-quality tuning fork weighing system for rapid display of the weight, very precise dispensing and a high level of mechanical robustness
- Thanks to the stainless steel design of the housing and platform with smooth surface, the scale is rust-free and easy to clean
- IP65 dust and spray protection (in accordance with EN 60529)
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard
- 1 RS-232 data interface for connection to a printer as standard

Technical data

- Large LCD display, digit height 16,5 mm
- Dimensions weighing surface, stainless steel
 - A ø 140 mm
 - B WxD 190x190 mm, see larger picture
- Overall dimensions WxDxH 320x205x90 mm
- Net weight approx. 3,0 kg
- Permissible ambient temperature 10 °C/30 °C

Accessories

- Loop for underfloor weighing, KERN EG-A07, € 46,-
- BalanceConnection software for flexible measured value recording or transmission, compatible with Microsoft® Excel, Access and other applications, scope of supplies: Download link for 1 license, KERN SCD-4.0-DL, € 210,-
- 2 Battery insert, enables mobile weighing, 4x1.5 V AA batteries (not included in delivery), Operating time 200 h, KERN PWS-A01, € 118,-
- 3 Interface cable RS-232 to connect an external device, IP65 dust and spray protection (in accordance with EN 60529), KERN PWS-A02, € 300,-
- Further details, plenty of further accessories and suitable printers see Accessories

STANDARD

CAL EXT

RS 232

GLP
PRINTER

GLP
PC

PERCENT

TOL

IP 65

MULTI

T-FORK

1 DAY

OPTION

UNDER

BATT

DAkKS
+3 DAYS

Model	Weighing capacity	Readability	Reproducibility	Linearity	Weighing plate	Price excl. of VAT ex works €	Options	
							DAkKS Calibr. Certificate	
	[Max] g	[d] g	g	g			DAkKS KERN	€
KERN								
PWS 800-2	820	0,01	0,01	± 0,01	A	1160,-	963-127	103,-
PWS 3000-1	3200	0,1	0,1	± 0,1	B	1020,-	963-127	103,-
PWS 8000-1	8200	0,1	0,1	± 0,1	B	1150,-	963-128	124,-



Robust laboratory and industrial precision scale for heavy items, verification optional

Features

- KERN PEJ: Automatic internal adjustment, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN PES: Adjusting program CAL for quick setting of the balance accuracy, external test weights at an additional price, see test weights
- Metal housing: robust and sturdy
- Weighing with tolerance range: a visual and audible signal helps with portioning, dispensing or grading
- Draught shield standard for models with weighing plate size **A**, weighing space W×D×H 170×150×100 mm
- **A**, **B** Underfloor weighing: load support with hook on the underside of the balance for models
- **A**, **B** Protective working cover included with delivery

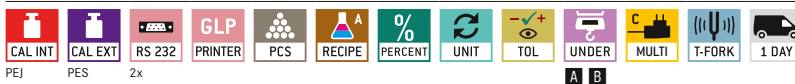
Technical data

- Fluorescent display, bright with high contrast, digit height 14 mm
- Dimensions weighing surface, stainless steel
 - A** W×D 140×120 mm
 - B** W×D 200×200 mm, see larger picture
 - C** W×D 250×220 mm
- Overall dimensions (without draught shield) W×D×H
 - A**, **B** 220×333×93 mm
 - C** 260×330×113 mm
- Permissible ambient temperature 10 °C/30 °C

Accessories

- **A**, **B** Protective working cover, scope of delivery 5 items, KERN PES-A04S05, € 52,-
- Relay output to connect relays, signal lamps, valves etc., 5 outputs for weighing in 3 tolerance ranges, must be ordered at purchase, KERN PES-A02, € 550,-
- Minimum weight of sample, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, € 10,-
- Equipment qualification: compliant qualification concept with Installation and Operating Qualification (IQ, OQ), for details see page 222
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Linearity	Weighing plate	Net weight	Price excl. of VAT ex works €	Options			
									Verification	€	DAkkS Calibr. Certificate	€
KERN	g	g	g	g	g		kg		M KERN		DAkkS KERN	
PES 620-3M	620	0,001	-	-	± 0,003	A	3,4	1500,-	-	-	963-103	170,-
PES 2200-2M	2200	0,01	-	-	± 0,02	B	4,4	1060,-	-	-	963-127	103,-
PES 4200-2M	4200	0,01	-	-	± 0,02	B	4,4	1250,-	-	-	963-127	103,-
PES 6200-2M	6200	0,01	-	-	± 0,03	B	4,4	1550,-	-	-	963-104	193,-
PES 15000-1M	15000	0,1	-	-	± 0,2	B	4,4	1480,-	-	-	963-128	124,-
PES 31000-1M	31000	0,1	-	-	± 0,4	C	10	2450,-	-	-	963-128	124,-
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.												
PEJ 620-3M	620	0,001	0,01	0,1	± 0,003	A	4,4	1800,-	965-201	150,-	963-103	170,-
PEJ 4200-2M	4200	0,01	0,1	0,5	± 0,02	B	6	1550,-	965-216	85,-	963-127	103,-
PEJ 2200-2M	2200	0,01	0,1	0,5	± 0,02	B	6	1350,-	965-216	85,-	963-127	103,-



Multifunctional laboratory balance with single-cell weighing system, verification optional

Features

- KERN PBS: Adjusting program CAL for quick setting of the balance accuracy, external test weights at an additional price, see test weights
- KERN PBJ: Internal adjustment in the case of a change in temperature and time-controlled at defined intervals, guarantees high degree of accuracy and makes the balance independent of its location of use
- Metal housing: robust and sturdy
- Dosage aid: High stability mode and other filter settings can be selected
- Weighing with tolerance range: a visual signal helps with portioning, dispensing or grading
- Summation of weight values
- Identification number: 4 digits, printed on calibration protocol freely programmable
- Automatic data output to the PC/printer each time the balance is steady

- **A** Draught shield standard for models with weighing plate size **A**, weighing space W×D×H 180×193×87 mm, removable
- Protective working cover included with delivery

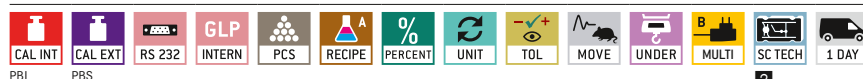
Technical data

- Large backlit LCD display, Digit height 14 mm
- Dimensions weighing surface, stainless steel
A W×D 112×112 mm
B W×D 180×190 mm, see larger picture
- Overall dimensions (without draught shield) W×D×H: 210×330×70 mm
- Net weight approx. 4,2 kg
- Permissible ambient temperature 10 °C/30 °C

Accessories

- Protective working cover, scope of delivery 5 items, for models with weighing plate size
A KERN PBS-A01S05, € 52,-
B KERN PBS-A02S05, € 52,-
- **1** Set for density determination of liquids and solids with density ≥ 1, for models with weighing plate size
A KERN PBS-A04, € 1950,-
B KERN PBS-A03, € 1950,-
- Minimum weight of sample, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, € 10,-
- Equipment qualification: compliant qualification concept with Installation and Operating Qualification (IQ, OQ), for details see page 222
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Linearity	Weighing plate	Net weight	Price excl. of VAT ex works €	Options			
									Verification	€	DAkkS Calibr. Certificate	€
KERN	g	g	g	g	g		kg		M KERN		DAkkS KERN	
PBS 620-3M	620	0,001	-	-	± 0,002	A	3,2	1750,-	-	-	963-103	170,-
PBS 4200-2M	4200	0,01	-	-	± 0,02	B	3,2	1540,-	-	-	963-127	103,-
PBS 6200-2M	6200	0,01	-	-	± 0,02	B	3,4	1850,-	-	-	963-104	193,-
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.												
PBJ 620-3M	620	0,001	0,01	0,1	± 0,002	A	4,2	2050,-	965-201	150,-	963-103	170,-
PBJ 4200-2M	4200	0,01	0,1	0,5	± 0,02	B	5,0	1900,-	965-216	85,-	963-127	103,-
PBJ 6200-2M	6200	0,01	0,1	1	± 0,02	B	5,0	2300,-	965-202	150,-	963-104	193,-
PBJ 8200-1M	8200	0,1	1	5	± 0,2	B	5,0	1890,-	965-217	99,-	963-128	124,-

NEW



3



Precision balance with flexible functionality and touch display



The modern touch display enables convenient operation



Also available with a larger weighing surface



In a GLP-compliant print protocol all weights can be documented, including date, time and identification number.

Features

- The wide range of functions of this range of precision balances means that they qualify for use in the pharmaceutical industry as well as other fields. These include, for example, the statistical function, weighing with tolerance range, counting function, percentage weighing, totalizing function and many more
- Modern touch display with convenient operation enables you to, for example, switch the units or start adjustment straight from the display
- The Windows Direct function allows weights to be transferred directly from the balance to a Windows application via a USB device connection, without the need for manual entry
- Draught shield standard for models with [d] = 0,001 g, weighing space W×D×H 174×162×228 mm
- GLP/ISO record keeping with date, time and identification number of balance adjustment or weighing process
- Assists in data integrity in accordance with U.S. FDA 21 Part 11 (for example weighing result, sample ID, user name, scales ID, ...)
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers, see page 19
- Underfloor weighing: load support on the underside of the balance for models. Loop for underfloor weighing, standard
- RS 232 data interface and USB (Device) for the transfer of weighing data
- Menu language EN

Technical data

- Backlit LCD display, digit height 20 mm
- Dimensions weighing surface, stainless steel
A Ø 115 mm
B W×D 185×185 mm
- Overall dimensions W×D×H
A 207×318×360 mm
B 207×318×110 mm
- Permissible ambient temperature 15 °C/25 °C

Accessories

- Protective dust cover, KERN ABS-A08, € 32,-
- Weighing table to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03, € 990,-
- Antivibration plate 400×450×60 mm, KERN YPS-04, € 760,- 565×450×60 mm, KERN YPS-05, € 980,-
- Ioniser to neutralise electrostatic charge, KERN ABP-A01, € 1990,-
- Equipment qualification: compliant qualification concept with Installation and Operating Qualification (IQ, OQ), for details see page 222
- Further details, plenty of further accessories and suitable printers see *Accessories*

The main scope of applications is:

- Laboratories
- Pharmaceutical industry
- Chemical industry
- Food industry
- Plastics industry
- Quality laboratories

STANDARD



OPTION



Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Net weight	Weighing plate	Price excl. of VAT ex works €	Options	
								DAkKS	Calibr. Certificate
KERN	g	g	g	g	kg		€	KERN	€
Models with external adjustment									
PDS 300-3	320	0,001	0,003	± 0,003	6	A	1200,-	963-127	103,-
PDS 600-3	620	0,001	0,003	± 0,003	6	A	1740,-	963-103	170,-
PDS 1000-3	1020	0,001	0,004	± 0,005	6	A	2100,-	963-103	170,-
PDS 2000-2	2200	0,01	0,03	± 0,03	3,6	B	1300,-	963-127	103,-
PDS 4000-2	4200	0,01	0,03	± 0,03	3,6	B	1500,-	963-127	103,-
PDS 6000-2	6200	0,01	0,03	± 0,03	3,6	B	1720,-	963-104	193,-
Models with internal adjustment									
PDT 300-3	320	0,001	0,003	± 0,003	6	A	1400,-	963-127	103,-
PDT 600-3	620	0,001	0,003	± 0,003	6	A	1940,-	963-103	170,-
PDT 1000-3	1020	0,001	0,004	± 0,005	6	A	2300,-	963-103	170,-
PDT 2000-2	2200	0,01	0,03	± 0,03	3,6	B	1500,-	963-127	103,-
PDT 4000-2	4200	0,01	0,03	± 0,03	3,6	B	1700,-	963-127	103,-
PDT 6000-2	6200	0,01	0,03	± 0,03	3,6	B	1920,-	963-104	193,-



High-capacity precision balance with password-protected user administration, with optional verification

Features

- KERN FEJ: Automatic internal adjustment, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN FES: Adjusting program CAL for quick setting of the balance accuracy, external test weights at an additional price, see *Test Weights*
- Stainless steel display device with IP65 protection, hygienic and easy to clean
- Metal housing: robust and sturdy
- User administration enables unique assignment of users and protects against unauthorised access
- Freely-assignable function keys enable individual adjustment of the balance
- IP65 dust and spray protection (in accordance with EN 60529)
- U.S. FDA 21 Part 11: assists in data integrity in accordance with U.S. FDA 21 Part 11 (for example weighing result, sample ID, user name, scales ID, ...)
- Protective working cover included with delivery

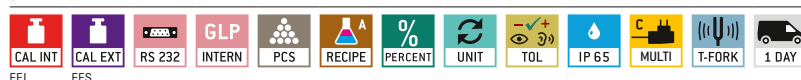
Technical data

- Large backlit LCD display, digit height 16,5 mm
- Dimensions weighing surface, stainless steel, W×D 350×400 mm
- Dimensions of display device W×D×H 290×180×80 mm
- Overall dimensions W×D×H 350×520×170 mm
- Net weight approx. 19 kg
- Permissible ambient temperature: 5 °C/35 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN FEJ-A02S05, **€ 52,-**
- Internal rechargeable battery pack, operating time up to 10 h without backlight, charging time approx. 12 h, KERN FEJ-A01, **€ 760,-**
- Relay output with 5 outputs for weighing in 3 tolerance ranges, KERN FEJ-A07, **€ 585,-**
- **1** Stand to elevate display device, height of stand approx. 700 mm, KERN FEJ-A05, **€ 250,-**
- Interface cable RS-232 to connect an external device, IP65 dust and spray protection (in accordance with EN 60529), KERN PWS-A02, **€ 300,-**
- **2** Loop for underfloor weighing, KERN FEJ-A06, **€ 240,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

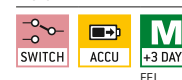
STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Linearity g	Price excl. of VAT ex works €	Options			
							Verification		DAkkS Calibr. Certificate	
	g	g	g	g			KERN	€	DAkkS KERN	€
KERN										
FES 17K-4	17000	0,1	-	-	± 0,3	2850,-	-	-	963-128	124,-
FES 33K-4	33000	0,1	-	-	± 0,3	3000,-	-	-	963-128	124,-
FES 62K-4D	6200 62000	0,1 1	-	-	± 0,3 3	3300,-	-	-	963-129	153,-
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.										
FEJ 17K-4M	17000	0,1	1	5	± 0,3	3080,-	965-217	99,-	963-128	124,-
FEJ 33K-4M	33000	0,1	1	5	± 0,3	3340,-	965-217	99,-	963-128	124,-
FEJ 62K-4DM	6200 62000	0,1 1	1	5	± 0,3 3	3650,-	965-218	135,-	963-129	153,-



All details on DAkkS calibration certificates for test weights, our KERN calibration service and other useful information can be found here: www.kern-lab.com

OUR KERN SERVICE FOR YOUR DAILY LABORATORY LIFE

For quality assurance and easy, compliant sequences in the laboratory, KERN offers you an extensive range of services and plenty of suitable accessories – we will be happy to advise you.

Looking for the right test equipment?

You will find that we have an enormous range of test weights and suitable calibration services – all in accordance with the current DAkkS guidelines.

For example, discover our DAkkS-calibrated KERN Safety Sets each with an appropriate test weight for correct adjusting of the balance, a small test weight for checking the minimum sample weight, plus space for another separate test weight.

Extensive details on all topics see *Test Weights*.



The benefit of KERN accessories: Count on it – everything fits together!

Our product advisors can recommend the fitting accessories for your KERN devices, so that your individual weighing systems seamlessly work together in a stable and reliable way.

Our accessories tips for all KERN Laboratory balances:



Ioniser to neutralise electrostatic charge, guarantees extremely rapid ionisation. Direct installation when ordering in combination with an ABP model, KERN ABP-A01, see *Analytical Balances*



Thermal printer, KERN YKH-01 other suitable printers, see *Accessories*

Solid weighing table

Professionalism and security for a stable weighing environment. Suitable for all laboratory balances, KERN YPS-03, see *Accessories*



→ Didn't find the right product in the catalogue?

You can find the full range of accessories and available KERN test equipment on the internet under www.kern-sohn.com

4



ANALYTICAL BALANCES

Quick-Finder Analytical Balances

Readout	Weighing range	Model	Price excl. of VAT	Page	       						
[d] mg	[Max] g	KERN	€		For an explanation on the pictos, see the front flap						
0,01 0,1	42 120	ABT 120-5DNM	2550,-	48	●	●	●	●	●	●	●
0,01 0,1	52 120	ABP 100-5DM	3200,-	50	●	●	●	●	●	●	●
0,01 0,1	52 120	ABP 100-5DAM	6800,-	52	●	●	●	●	●	●	●
0,01 0,1	82 220	ALJ 200-5DA	2250,-	44	●	●	●	●	●	●	●
0,01 0,1	82 220	ABT 220-5DNM	2650,-	48	●	●	●	●	●	●	●
0,01 0,1	102 220	ABP 200-5DM	3400,-	50	●	●	●	●	●	●	●
0,01 0,1	102 220	ABP 200-5DAM	9000,-	52	●	●	●	●	●	●	●
0,01	101	ABT 100-5NM	2500,-	48	●	●	●	●	●	●	●
0,01	135	ABP 100-5M	4200,-	50	●	●	●	●	●	●	●
0,01	135	ABP 100-5AM	9200,-	52	●	●	●	●	●	●	●
0,01	210	ALJ 210-5A	3250,-	44	●	●	●	●	●	●	●
0,01	220	ABP 200-5AM	11200,-	52	●	●	●	●	●	●	●
0,01	220	ABP 200-5M	6000,-	50	●	●	●	●	●	●	●
0,1	82	ACS 80-4	1230,-	46	●	●	●	●	●	●	●
0,1	82	ACJ 80-4M	1370,-	46	●	●	●	●	●	●	●
0,1	120	ACS 100-4	1330,-	46	●	●	●	●	●	●	●
0,1	120	ACJ 100-4M	1430,-	46	●	●	●	●	●	●	●
0,1	120	ABT 120-4NM	1900,-	48	●	●	●	●	●	●	●
0,1	120	ABP 100-4M	2200,-	50	●	●	●	●	●	●	●
0,1	120	ADB 600-C3 	720,-	43	●	●	●	●	●	●	●
0,1	120	ADB 100-4	740,-	43	●	●	●	●	●	●	●
0,1	120	ADJ 600-C3 	860,-	43	●	●	●	●	●	●	●
0,1	120	ADS 100-4	1550,-	49	●	●	●	●	●	●	●
0,1	120	ADT 100-4	1700,-	49	●	●	●	●	●	●	●
0,1	120	ADJ 100-4	880,-	43	●	●	●	●	●	●	●
0,1	160	ALS 160-4A	1370,-	44	●	●	●	●	●	●	●
0,1	160	ALJ 160-4A	1420,-	44	●	●	●	●	●	●	●
0,1	220	ACS 200-4	1430,-	46	●	●	●	●	●	●	●
0,1	220	ACJ 200-4M	1530,-	46	●	●	●	●	●	●	●
0,1	220	ABT 220-4NM	2300,-	48	●	●	●	●	●	●	●
0,1	220	ABP 200-4M	2700,-	50	●	●	●	●	●	●	●
0,1	220	ABP 200-4AM	5900,-	52	●	●	●	●	●	●	●
0,1	220	ADB 200-4	820,-	43	●	●	●	●	●	●	●
0,1	220	ADS 200-4	1750,-	49	●	●	●	●	●	●	●
0,1	220	ADT 200-4	1900,-	49	●	●	●	●	●	●	●
0,1	220	ADJ 200-4	960,-	43	●	●	●	●	●	●	●
0,1	250	ALS 250-4A	1400,-	44	●	●	●	●	●	●	●
0,1	250	ALJ 250-4A	1450,-	44	●	●	●	●	●	●	●
0,1	310	ALJ 310-4A	1500,-	44	●	●	●	●	●	●	●
0,1	320	ACS 300-4	1630,-	46	●	●	●	●	●	●	●
0,1	320	ACJ 300-4M	1730,-	46	●	●	●	●	●	●	●
0,1	320	ABT 320-4NM	2600,-	48	●	●	●	●	●	●	●
0,1	320	ABP 300-4M	3000,-	50	●	●	●	●	●	●	●
0,1	320	ABP 300-4AM	6400,-	52	●	●	●	●	●	●	●
0,1	320	ADS 300-4	1950,-	49	●	●	●	●	●	●	●
0,1	320	ADT 300-4	2100,-	49	●	●	●	●	●	●	●
0,1	510	ALJ 500-4A	2200,-	44	●	●	●	●	●	●	●

■ News 2025

 = Carat balance

● Standard

○ Option



4

The price leader in analytical balances, with internal or external adjustment

Features

- KERN ADJ: Automatic internal adjustment in the case of a change in temperature $\geq 2\text{ °C}$ or time-controlled every 3 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN ADB: Adjusting program CAL for quick setting of the balance accuracy, external test weights at an additional price, see *Test Weights*
- Glass draught shield with 3 sliding doors for easy access to the items being weighed standard
- **1** ADB 600-C3/ADJ 600-C3: Compact, space-saving carat balances with a readout of 0.001 ct and a weighing range of 600 ct. The high level of accuracy saves hard cash wherever you are weighing valuable precious stones
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- Simple and convenient 6-key operation

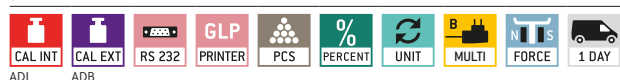
Technical data

- Large backlit LCD display, Digit height 16 mm
- Dimensions weighing surface, stainless steel, $\varnothing 90\text{ mm}$
- Weighing space W×D×H
KERN ADB-C/ADJ-C: 170×160×110 mm
KERN ADB/ADJ: 170×160×205 mm
- Permissible ambient temperature 10 °C/30 °C

Accessories

- **2** Set for density determination of liquids and solids with density ≤ 1 , KERN YDB-03, **€ 380,-**
- **3** Ioniser to neutralise electrostatic charge, KERN YBI-01A, **€ 950,-**
- **4** Gemstones plate, aluminium with practical spout, W×D×H 130×80×30 mm, KERN AEJ-A05, **€ 43,-**
- **5** Weighing table to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03, **€ 990,-**
- Minimum weight of sample, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, **€ 10,-**
- Equipment qualification: compliant qualification concept with Installation and Operating Qualification (IQ, OQ), for details see page 222
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION

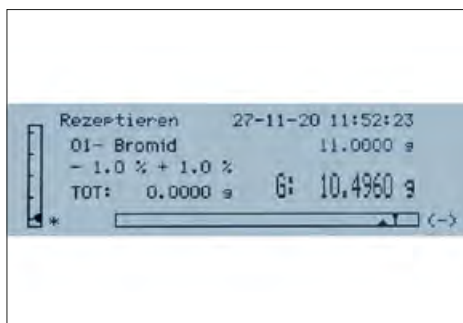


Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Overall dimensions W×D×H mm	Net weight kg	Price excl. of VAT ex works €	Options	
								DAkkS Calibr. Certificate	
KERN	g	mg	mg	mg				DAkkS KERN	€
ADB 100-4	120	0,1	0,2	± 0,4	230×310×330	4,4	740,-	963-101	200,-
ADB 200-4	220	0,1	0,2	± 0,4	230×310×330	4,4	820,-	963-101	200,-
ADB 600-C3	600 ct	0,001 ct	0,002 ct	± 0,004 ct	230×310×210	3,8	720,-	963-101	200,-
ADJ 100-4	120	0,1	0,2	± 0,4	230×310×330	5,0	880,-	963-101	200,-
ADJ 200-4	220	0,1	0,2	± 0,4	230×310×330	5,0	960,-	963-101	200,-
ADJ 600-C3	600 ct	0,001 ct	0,002 ct	± 0,004 ct	230×310×210	4,6	860,-	963-101	200,-

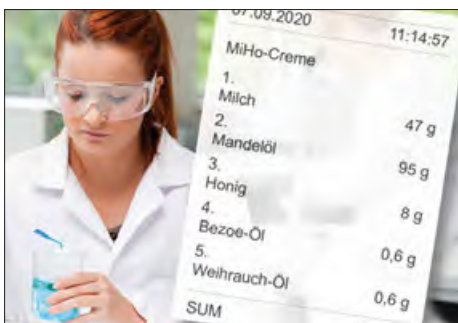


KERN ALJ 200-5DA with optional ioniser **2**, see *Accessories*. High-precision semi-micro analytical balance. Thanks to its high level of precision, it is ideal for calibrating pipettes. Note: To prevent evaporation we recommend economical capillary tubes (see standard 8655)

Analytical balances with a large weighing range, graphics display and user-friendly recipe weighing function – also as single-range semi-micro balance with unbelievably high resolution



Convenient recipe-weighing with the recipe database, up to 99 recipes can be stored, each with up to 20 recipe ingredients with name and target value



Clear printout with date and time. In addition, the components of the mixture are numbered automatically and printed out with the name and weight



GLP/ISO record keeping: professional, detailed GLP Protocol, so that the balance is completely compliant with the relevant standard requirements in accordance with ISO, GLP and GMP



Features

- ALJ 210-5A: Semi-micro model with just one weighing range with unbelievably high resolution. **2** Particularly advantageous: the ioniser KERN ALJ-A03 for neutralising electrostatic charge is already fitted as standard
- Rapid working thanks to the graphics display and user-friendly, clear user guidance in German, English, French, Italian, Spanish and Portuguese
- KERN ALJ: Automatic internal adjustment, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN ALS: Adjusting program CAL for quick setting of the balance accuracy using an external test weight at an additional price, see *Test Weights*
- Short stabilisation time: steady weight values within approx. 4 s (Models with [d] = 0,1 mg) 10 s; 6 s (Models with [d] = 0,01 | 0,1 mg) under laboratory conditions
- Weighing with tolerance range: a visual and audible signal helps with portioning, dispensing or grading
- Dosage aid: High stability mode and other filter settings can be selected
- Internal memory for complete recipes with name and target value of the recipe ingredients
- Ergonomically optimised keypad for left and righthanded users
- Large glass draught shield with 3 sliding doors for easy access to the items being weighed. weighing space W×D×H 160×170×225 mm
- Compact size
- Protective working cover included with delivery

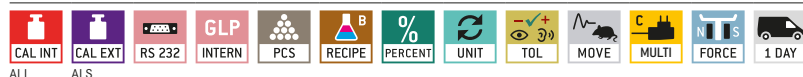
Technical data

- Backlit LCD graphic display, digit height 15 mm
- Dimensions weighing surface, stainless steel, Ø 80 mm
- Overall dimensions W×D×H 210×340×330 mm
- Permissible ambient temperature 5 °C/35 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN ALJ-A01S05, **€ 52,-**
- Protective dust cover, KERN ABS-A08, **€ 32,-**
- **1** Evaporation trap, minimises faults through evaporation when using pipettes for small volumes of 10 µl to 10 ml, KERN ALJ-A02, **€ 700,-**
- **2** Draught shield rear panel with integrated ioniser to neutralise electrostatic charge. Particularly convenient handling as you no longer need a separate device. Simply enable the ionizer fan at the push of a button. Is fitted in place of the existing glass rear panel of the draught shield. Please order at the time you order your balance, the scope of delivery is the rear panel, ionizer, Universal plug-in power supply. Factory Option, KERN ALJ-A03, **€ 600,-**
- **3** Set for density determination of liquids and solids with density ≤/≥ 1, the density is indicated directly on the display, KERN YDB-03, **€ 380,-**
- Weighing table to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03, **€ 990,-**
- Equipment qualification: compliant qualification concept with Installation and Operating Qualification (IQ, OQ), for details see page 222
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model	Weighing capacity [Max] g	Readability [d] mg	Reproducibility mg	Linearity mg	Net weight kg	Price excl. of VAT ex works €	Options	
							DAKkS Calibr. Certificate	
KERN							DAKkS KERN	€
ALS 160-4A	160	0,1	0,1	± 0,3	7	1370,-	963-101	200,-
ALS 250-4A	250	0,1	0,1	± 0,3	7	1400,-	963-101	200,-
ALJ 210-5A	210	0,01	0,05	± 0,1	6	3250,-	963-101	200,-
ALJ 160-4A	160	0,1	0,1	± 0,3	7	1420,-	963-101	200,-
ALJ 250-4A	250	0,1	0,1	± 0,3	7	1450,-	963-101	200,-
ALJ 310-4A	310	0,1	0,1	± 0,3	7	1500,-	963-101	200,-
ALJ 500-4A	510	0,1	0,2	± 0,4	7	2200,-	963-101	200,-
Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range								
ALJ 200-5DA	82 220	0,01 0,1	0,04 0,1	± 0,1 0,2	7	2250,-	963-101	200,-



The bestseller in analytical balances, with high-quality single-cell weighing system, verification optional



Single-cell advanced technology:

- Fully automatic manufactured weighing cell from one piece of material
- Stable temperature behaviour
- Short stabilisation time: steady weight values within approx. 3 s under laboratory conditions
- Shock proof construction
- High corner load performance



USB data interfaces and RS-232 for transferring weighing data to the PC, tablet, printer or USB



1



2



3

4

Features

- KERN ACJ: Automatic internal adjustment in the case of a change in temperature $\geq 2\text{ °C}$ or time-controlled every 4 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN ACS: Adjusting program CAL for quick setting of the balance accuracy, external test weights at an additional price, see *Test Weights*
- Dosage aid: High stability mode and other filter settings can be selected
- Simple recipe weighing and documenting with a combined tare/print function. In addition, the ingredients for the recipe are numbered automatically and printed out with their corresponding number and nominal weight
- Automatic data output to the PC/printer each time the balance is steady
- Identification number: 4 digits, printed on calibration protocol freely programmable
- Protective working cover included with delivery

Technical data

- Large LCD display, digit height 14 mm
- Dimensions weighing surface, stainless steel, $\varnothing 91\text{ mm}$
- weighing space W×D×H 174×162×227 mm
- Overall dimensions W×D×H 213×333×338 mm
- Net weight approx. 7 kg
- Permissible ambient temperature 10 °C/30 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN ACS-A02S05, **€ 52,-**
- **1** Set for density determination of liquids and solids with density $\leq/\geq 1$, the density is indicated directly on the display, KERN YDB-03, **€ 380,-**
- **2** Ioniser to neutralise electrostatic charge, KERN YBI-01A, **€ 950,-**
- **3** Weighing table to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03, **€ 990,-**
- Minimum weight of sample, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, **€ 10,-**
- Equipment qualification: compliant qualification concept with Installation and Operating Qualification (IQ, OQ), for details see page 222
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max]	Readability	Verification value	Minimal load	Reproducibility	Linearity	Price excl. of VAT ex works €	Options			
								Verification	DAkkS Calibr.	Certificate	
KERN	g	[d] mg	[e] mg	[Min] mg	mg	mg	€	MT KERN	€	DAkkS KERN	€
ACS 80-4	82	0,1	-	-	0,2	± 0,3	1230,-	-	-	963-101	200,-
ACS 100-4	120	0,1	-	-	0,2	± 0,3	1330,-	-	-	963-101	200,-
ACS 200-4	220	0,1	-	-	0,2	± 0,3	1430,-	-	-	963-101	200,-
ACS 300-4	320	0,1	-	-	0,2	± 0,3	1630,-	-	-	963-101	200,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.

The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

Model	Weighing capacity [Max]	Readability	Verification value	Minimal load	Reproducibility	Linearity	Price excl. of VAT ex works €	Verification	DAkkS Calibr.	Certificate	
ACJ 80-4M	g	[d] mg	[e] mg	[Min] mg	mg	mg	€	MT KERN	€	DAkkS KERN	€
ACJ 80-4M	82	0,1	1	10	0,2	± 0,3	1370,-	965-201	150,-	963-101	200,-
ACJ 100-4M	120	0,1	1	10	0,2	± 0,3	1430,-	965-201	150,-	963-101	200,-
ACJ 200-4M	220	0,1	1	10	0,2	± 0,3	1530,-	965-201	150,-	963-101	200,-
ACJ 300-4M	320	0,1	1	10	0,2	± 0,3	1730,-	965-201	150,-	963-101	200,-



The premium model with single-cell weighing system

Features

- Automatic internal adjustment in the case of a change in temperature $\geq 0,5\text{ }^{\circ}\text{C}$ or timecontrolled every 4 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- Dosage aid: High stability mode and other filter settings can be selected
- Simple recipe weighing and documenting with a combined tare/print function. The ingredients for the recipe are automatically numbered and printed with weight value
- Identification number: 4 digits, printed on calibration protocol freely programmable
- Printout of a GLP-compliant calibration report conveniently at the touch of a button
- Automatic data output to the PC/printer each time the balance is steady
- Large glass draught shield with 3 sliding doors for easy access to the items being weighed.
- Protective working cover included with delivery

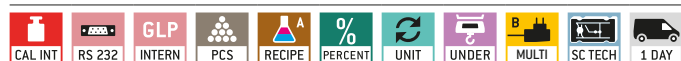
Technical data

- Large LCD display, digit height 14 mm
- Dimensions weighing surface, stainless steel, $\varnothing 80\text{ mm}$
- weighing space W×D×H 168×172×223 mm
- Overall dimensions W×D×H 217×356×338 mm
- Net weight approx. 8 kg
- Permissible ambient temperature $10\text{ }^{\circ}\text{C}/30\text{ }^{\circ}\text{C}$

Accessories

- Protective working cover, scope of delivery 5 items, KERN ABT-A02S05, **€ 52,-**
- **1** Set for density determination of liquids and solids with density $\leq/\geq 1$, the density is indicated directly on the display, KERN YDB-03, **€ 380,-**
- **2** Ioniser to neutralise electrostatic charge, KERN YBI-01A, **€ 950,-**
- **3** Weighing table to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03, **€ 990,-**
- Minimum weight of sample, depending on the required process accuracy, only in combination with a DakKS calibration certificate, KERN 969-103, **€ 10,-**
- Equipment qualification: compliant qualification concept with Installation and Operating Qualification (IQ, OQ), for details see page 222
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Reproducibility	Linearity	Price excl. of VAT ex works €	Options			
								Verification		DAKKS Calibr. Certificate	
KERN	g	mg	mg	mg	mg	mg		MT KERN	€	DAKKS KERN	€
ABT 100-5NM	101	0,01	1	1	0,05	$\pm 0,15$	2500,-	965-201**	150,-	963-101	200,-
ABT 120-4NM*	120	0,1	1	10	0,1	$\pm 0,2$	1900,-	965-201**	150,-	963-101	200,-
ABT 220-4NM*	220	0,1	1	10	0,1	$\pm 0,2$	2300,-	965-201**	150,-	963-101	200,-
ABT 320-4NM*	320	0,1	1	10	0,15	$\pm 0,3$	2600,-	965-201**	150,-	963-101	200,-

Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range

ABT 120-5DNM	42 120	0,01 0,1	1 1	1	0,02 0,1	$\pm 0,03$ 0,2	2550,-	965-201**	150,-	963-101	200,-
ABT 220-5DNM	82 220	0,01 0,1	1 1	1	0,05 0,1	$\pm 0,1$ 0,2	2650,-	965-201**	150,-	963-101	200,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.

The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

1 *ONLY WHILE STOCKS LAST **Conformity assessment only possible until 18/06/2025



NEW



4

Analytical balance with flexible functionality and touch display

Features

- The wide range of functions of this range of analytical balances means that they qualify for use in the pharmaceutical industry as well as other fields. These include, for example, the statistical function, weighing with tolerance range, counting function, percentage weighing, totalizing function and many more
- 1** Modern touch display with convenient operation enables you to, for example, switch the units or start adjustment straight from the display
- Draught shield standard
- Specialised functions, such as the statistical function make it easier to use efficiently in industry and the laboratory
- GLP/ISO record keeping with date, time and identification number of balance adjustment or weighing process

- Assists in data integrity in accordance with U.S. FDA 21 Part 11 (for example weighing result, sample ID, user name, scales ID, ...)
- Data query and remote control of the balance using a computer or CRM/ERP systems using the KERN Communication Protocol
- RS 232 data interface and USB (Device) for the transfer of weighing data
- Menu language EN

Technical data

- Backlit LCD display, digit height 20 mm
- Dimensions weighing surface, stainless steel, Ø 90 mm
- Overall dimensions W×D×H 207×318×360 mm
- Net weight approx. 6 kg
- Permissible ambient temperature 15 °C/25 °C

Accessories

- Protective dust cover, KERN ABS-A08, **€ 32,-**
- Weighing table to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03, **€ 990,-**
- Antivibration plate
400×450×60 mm, KERN YPS-04, **€ 760,-**
565×450×60 mm, KERN YPS-05, **€ 980,-**
- Ioniser to neutralise electrostatic charge, KERN ABP-A01, **€ 1990,-**
- Equipment qualification: compliant qualification concept with Installation and Operating Qualification (IQ, OQ), for details see page 222
- Further details, plenty of further accessories and suitable printers see *Accessories*

The main scope of applications is:

- Laboratories
- Pharmaceutical industry
- Chemical industry
- Food industry
- Plastics industry
- Quality laboratories

STANDARD



OPTION



Model	Weighing capacity [Max] g	Readability [d] mg	Reproducibility mg	Linearity mg	Price excl. of VAT ex works €	Options	
						DAKKS Calibr. Certificate	
KERN						DAKKS KERN	€
Models with external adjustment							
ADS 100-4	120	0,1	0,3	± 0,3	1550,-	963-101	200,-
ADS 200-4	220	0,1	0,3	± 0,3	1750,-	963-101	200,-
ADS 300-4	320	0,1	0,4	± 0,4	1950,-	963-101	200,-
Models with internal adjustment							
ADT 100-4	120	0,1	0,3	± 0,3	1700,-	963-101	200,-
ADT 200-4	220	0,1	0,3	± 0,3	1900,-	963-101	200,-
ADT 300-4	320	0,1	0,4	± 0,4	2100,-	963-101	200,-



Premium analytical balance with the latest Single-Cell Generation for extremely rapid, stable weighing results



1 The internal draught shield minimises the effect of currents of air in the weighing chamber and therefore significantly improves the stabilisation time and repeatability, see *Accessories*



2 Extremely fast ionization process, thanks to the latest generation of KERN ionization technology to neutralise electrostatic charge, see *Accessories*



GLP/ISO record keeping: professional, detailed GLP Protocol, so that the balance is completely compliant with the relevant standard requirements in accordance with ISO, GLP and GMP

Features

- Large glass draught shield with 3 sliding doors for easy access to the items being weighed
- Navigation pad for quick navigating through the menus
- Automatic internal adjustment in the case of a change in temperature $\geq 1\text{ }^{\circ}\text{C}$ or timecontrolled every 4 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- The minimum weight of sample can be manually stored in the device or automatically calculated. For weighings below this value, the balance issues a warning message
- Dosage aid: High stability mode and other filter settings can be selected
- Simple recipe weighing and documenting with a combined tare/print function. In addition, the ingredients for the recipe are numbered automatically and printed out with their corresponding number and nominal weight
- Individual settings can be stored for up to 10 users: User name/number, password, menu language, user profile. Settings can be recalled using the barcode. Guest mode for users who are not logged in, specific permissions (e.g. for adjustment, recipe changes) only for authorised users
- RS-232 data interfaces and USB (device) for transferring weighing data and USB (host) to connect a USB keyboard
- U.S. FDA 21 Part 11: assists in data integrity in accordance with U.S. FDA 21 Part 11 (for example weighing result, sample ID, user name, scales ID, ...)
- Menu languages DE, EN
- Automatic data output to the PC/printer each time the balance is steady

- Standard for models with [d] 0,01 mg: Multi-function weighing plate included with delivery, minimises the effect of currents of air in the weighing chamber and therefore significantly improves the stabilisation time and repeatability. In addition samples, sample paper, PCR containers, micro centrifuge tubes and many other items which protrude can be easily fixed in place and weighed easily
- ABP 200-5M: Erlenmeyer flask holder included with delivery
- Protective working cover included with delivery

Technical data

- Luminescent OLED display, digit height 12 mm bright with high contrast, for easy reading of the weight, even in poor lighting conditions
- Dimensions weighing surface, stainless steel, $\varnothing 91\text{ mm}$
- Overall dimensions W×D×H 220×370×350 mm
- Net weight approx. 8 kg
- Permissible ambient temperature 10 °C/30 °C

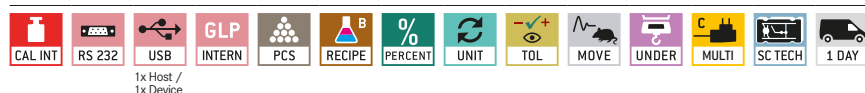
Accessories

- Protective working cover, scope of delivery 5 items, KERN YBA-A06S05, **€ 52,-**
- Set for density determination of liquids and solids with density $\leq/\geq 1$, the density is indicated directly on the display, KERN YDB-03, **€ 380,-**
- **1** Internal draught shield made of glass, KERN ABP-A02, **€ 165,-**
- **2** Ioniser to neutralise electrostatic charge. Suitable for all models in the ABP range. Please order together with the balance you want so that it can be fitted into the rear panel of the balance, KERN ABP-A01, **€ 1990,-**
- USB barcode scanner, hand-held version, dimensions W×D×H 152×84×63 mm, KERN PET-A09, **€ 300,-**
- Minimum weight of sample, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, **€ 10,-**
- Equipment qualification: compliant qualification concept with Installation and Operating Qualification (IQ, OQ), for details see page 222
- Further details, plenty of further accessories and suitable printers see *Accessories*

Single-cell advanced technology:

- Fully automatic manufactured weighing cell from one piece of material
- Stable temperature behaviour
- Short stabilisation time: steady weight values within approx. 2 s (models with [d] = 0,1 mg), approx. 8 s (models with [d] = 0,01 mg) under laboratory conditions
- Shock proof construction
- High corner load performance

STANDARD



1x Host / 1x Device

OPTION



FACTORY



Model	Weighing capacity [Max] g	Readability [d] mg	Verification value [e] mg	Minimal load [Min] mg	Reproducibility mg	Linearity mg	Price excl. of VAT ex works €	Options			
								Verification MT KERN	€	DAkkS Calibr. Certificate DAkkS KERN	€
KERN											
ABP 100-5M	135	0,01	1	1	0,05	± 0,1	4200,-	965-201	150,-	963-101	200,-
ABP 200-5M	220	0,01	1	1	0,015	± 0,1	6000,-	965-201	150,-	963-101	200,-
ABP 100-4M	120	0,1	1	10	0,1	± 0,2	2200,-	965-201	150,-	963-101	200,-
ABP 200-4M	220	0,1	1	10	0,1	± 0,2	2700,-	965-201	150,-	963-101	200,-
ABP 300-4M	320	0,1	1	10	0,15	± 0,3	3000,-	965-201	150,-	963-101	200,-
Multi-division balance, with increasing or decreasing load, it switches automatically to the next largest or smallest weighing range [Max] and readout [d].											
ABP 100-5DM	52 120	0,01 0,1	1 1	1	0,02 0,1	± 0,05 0,2	3200,-	965-201	150,-	963-101	200,-
ABP 200-5DM	102 220	0,01 0,1	1 1	1	0,05 0,1	± 0,1 0,2	3400,-	965-201	150,-	963-101	200,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.

The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.



Version with automatic sliding doors and other innovative features

Features

- 1 Large glass draught shield: with 3 automatic sliding doors, which can be opened and closed using sensors, and integrated ioniser as standard. Thanks to the Memory Function, the balance stores how far the sliding doors have been opened. This prevents contamination and accelerates processes. Touching the sliding doors “gently” activates the push function and the doors open and shut automatically. Opening possible alternatively via button
- 2 Ioniser (included) can be activated at the touch of a button
- The adjustable internal draft shield minimises the effect of currents of air in the weighing space and guarantees maximum stability of the weight readings, only for 0.01 mg models of the series ABP-A

- 3 Erlenmeyer piston holder, included as standard with ABP 200-5M and ABP 200-5AM
- 4 Standard for models with [d] 0,01 mg: Multi-function weighing plate

Technical data

- Luminescent OLED display, digit height 12 mm bright with high contrast, for easy reading of the weight, even in poor lighting conditions
- Dimensions weighing surface Ø 91 mm, stainless steel
- weighing space W×D×H 166×156×220 mm
- Overall dimensions W×D×H 220×370×350 mm
- Net weight approx. 8 kg
- Permissible ambient temperature 10 °C/30 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN YBA-A06S05, € 52,-
- Set for density determination of liquids and solids with density ≤/≥ 1, the density is indicated directly on the display, KERN YDB-03, € 380,-
- USB barcode scanner, hand-held version, dimensions W×D×H 152×84×63 mm, KERN PET-A09, € 300,-
- Minimum weight of sample, depending on the required process accuracy, only in combination with a DAkKS calibration certificate, KERN 969-103, € 10,-
- Equipment qualification: compliant qualification concept with Installation and Operating Qualification (IQ, OQ), for details see page 222

STANDARD

CAL INT

RS 232

USB

GLP INTERN

PCS

RECIPE

PERCENT

UNIT

TOL

MOVE

UNDER

MULTI

SC TECH

1 DAY

1x Host / 1x Device

OPTION

DAkKS +3 DAYS

FACTORY

M +3 DAYS

Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Reproducibility	Linearity	Price excl. of VAT ex works €	Options			
								Verification	DAkKS Calibr. Certificate		
KERN	g	mg	mg	mg	mg	mg		MT KERN	€	DAkKS KERN	€
ABP 100-5AM	135	0,01	1	1	0,05	± 0,1	9200,-	965-201	150,-	963-101	200,-
ABP 200-5AM	220	0,01	1	1	0,015	± 0,1	11200,-	965-201	150,-	963-101	200,-
ABP 200-4AM	220	0,1	1	10	0,1	± 0,2	5900,-	965-201	150,-	963-101	200,-
ABP 300-4AM	320	0,1	1	10	0,15	± 0,3	6400,-	965-201	150,-	963-101	200,-

Multi-division balance, with increasing or decreasing load, it switches automatically to the next largest or smallest weighing range [Max] and readout [d].

ABP 100-5DAM	52 120	0,01 0,1	1 1	1	0,02 0,1	± 0,05 0,2	6800,-	965-201	150,-	963-101	200,-
ABP 200-5DAM	102 220	0,01 0,1	1 1	1	0,05 0,1	± 0,1 0,2	9000,-	965-201	150,-	963-101	200,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

5



MOISTURE ANALYSERS

They have a number of memories, network connectivity, different heating modes and are easy to use due to the intuitive operation and easy-to-read displays. Our high-quality moisture analysers are ideal for use in the food processing industry, water resource management, plastics industry, the energy industry or agriculture.

Halogen moisture analysers for rapid, reliable measuring results

Our models work on the thermogravimetric principle which means the sample is weighed and warmed with a halogen lamp. During this procedure, the weight loss is recorded continuously while it is drying until it reaches the defined value. The current moisture content for the sample can then be automatically calculated from the measured weight difference. All benefits of our moisture analysers with halogen drying:

- Even heating of the sample without risk of burning
- Rapid amortisation through low purchase costs
- Temperature ranges from 35 to 200 degrees
- High level of measurement accuracy to 0.01 %
- Spare capacity, weighing range up to 200 g
- You can select between different heating profiles
- You can select between different switch-off criteria, automatic or time-controlled

The drying programs

Depending on the model, our moisture analysers have different heating profiles, so the procedure can be adapted to best suit the sample in question.

- The standard drying setting is suitable for most types of sample. As an option you can choose between these two types of switch-off criteria: Automatic drying (AUTO) or time-controlled (TIME)
- Rapid drying is suitable for samples with a high moisture content
- Smooth heating through gentle drying prevents disintegration and formation of a skin
- As an alternative to rapid drying, you can also use stage drying as well. The temperature and the time period for the increase in temperature can be freely selected. Equally, the moisture can be determined selectively for different temperatures

Our recommendation: The high-performance DBS moisture analyser with excellent stability, reliability and reaction speed, 10 drying programs can be stored and memory for 100 drying processes carried out as well as a USB and RS 232 data interface.

Simple data transfer

For easy, convenient communication between the moisture analyser and printer, or PC there are interfaces available, for example to connect a USB or Ethernet. The devices themselves have several internal memories, where you can store drying programs with drying parameters, such as, for example, drying period, drying temperature, display settings, switch-off criteria etc. This saves time and guarantees repeatable results. Compatible printers to print out weights, calibration and interface kits are available in our extensive range of accessories, suitable for each moisture analyser.

For communication between the balance and the printer, the moisture analyser must be disconnected from the power supply and connected to the printer. We guarantee fault-free operation with the KERN interface cable. To transfer the values to the PC we recommend our "Balance Connection KERN SCD 4.0" transfer software. Programs such as Excel or other spreadsheet applications are ideal for displaying graphics.

Our recommendation: DLB moisture analyser with intuitive graphics display, multi-lingual user guidance, convenient Auto-Tare when closing the lid and RS 232 data interface.

Our service options

In order for the comparability of the results of moisture analyses to be guaranteed, the correct temperatures must be maintained in the heating chamber or sample. We offer our customers regular calibration of the temperature for genuine and reliable measuring results KERN 964-305, € 174,-

If requested, we can carry out sample analysis for you and support you in adjusting the parameters of your moisture analyser KERN 965-243, € 95,-/hour.

Please contact your personal customer advisor if you would like us to help!

Quick-Finder Moisture Analysers

Readout	Weighing range	Model	Price	Page	CAL EXT	MEMORY	RS 232	USB	UNIT
[d]	range		excl. of VAT						
g	[Max]	KERN	ex works						
	g		€						
0,001	60	DBS 60-3	1650,-	55	●	●	●	●	●
0,001	110	DAB 100-3	1250,-	54	●	●	●	●	●
0,001	160	DLB 160-3A	1450,-	56	●	●	●	●	●
0,01	200	DAB 200-2	1200,-	54	●	●	●	●	●

● Standard ○ Option

For an explanation on the pictos, see the front flap



Particularly user-friendly moisture analyser with high-quality halogen quartz glass heater – also available as version with [d] = 10 mg, ideal for recurring rapid tests

Features

- KERN DAB 200-2: Version with lower resolution, whereby the switch-off criterion is reached faster, which saves time. Ideal for quick tests and spot checks
- Backlit graphic display, digit height 14 mm
- 1 Active drying process
- 2 Active heating profile
- 3 Active switch-off criteria
- 4 Previous drying time

- 5 Current temperature
- 6 Current moisture content in %
- 400 W halogen-quartz glass heater
- Suitable for temperature-insensitive samples
- Helpful observation window above the sample
- Internal memory for automatic sequence of 15 complete drying processes and 5 drying processes carried out
- The last value measured remains on the display until it is replaced by a new measurement

- 50 sample plates included
- On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser
- Note: both models are also available in infrared version, see accessories

STANDARD



OPTION



KERN	DAB 100-3	DAB 200-2
Readability [d] Weight/Moisture (%)	0,001 g / 0,01 %	0,01 g / 0,05 %
Weighing capacity [Max]	110 g	200 g
Reproducibility weight of sample 2 g*	0,15 %	1,5 %
Reproducibility weight of sample 10 g*	0,03 %	0,3 %
Display after drying (Display can be switched over at any time)		
Moisture [%] = Moisture content (M) from wet weight (W)	20 - 100 %	
Dry content [%] = Dry weight (D) from [W]	100 - 20 %	
Moisture content (M)	Absolute value in [g]	
Temperature range (in steps up to)	40 °C - 199 °C (1 °C)	
Drying modes	Standard drying Gentle drying Rapid drying	
Switch-off criteria	• Automatic switch-off (2 mg loss in weight in 45 s) • Time controlled switch-off (3 min - 99 min 59 s, 10 s increments) • Manual switch-off at the press of a button	
Recall of measurement/ Log output	Interval can be set from 1 s - 10 min (Only when used with printer or PC)	
Overall dimensions W×D×H	240×365×180 mm	
Net weight	4,82 kg	
Price excl. of VAT ex works €	1250,-	1200,-
Option DAKKS Calibr. Certificate Mass	963-127, € 103,-	
Option Factory Calibr. Certificate Temperature	964-305, € 174,-	

* application-dependent

Accessories

- Sample plates aluminium, ø 90 mm, unit of 80 pieces, KERN MLB-A01A, € 45,-
- Round fiberglass filter, medium mechanical stability, without organic binder, box of 100 pieces, KERN RH-A02, € 79,-
- 7 Temperature calibration set consists of measuring sensor and display device, KERN DAB-A01., € 200,-
- 8 Infrared quartz glass heater, temperature range 40 °C-160 °C, Factory Option, KERN DAB-A02, € 198,-
- 9 BalanceConnection software for flexible measured value recording or transmission, compatible with Microsoft® Excel, Access and other applications, Scope of supplies: Download link for 1 license, KERN SCD-4.0-DL, € 210,-
- Thermal printer, KERN YKH-01, € 420,-
- Matrix needle printer, to print the weights on normal paper, ideal for long-term archiving, KERN 911-013, € 480,-



Moisture analyser with high-quality single-cell weighing system for outstanding stability, reliability and response speed

Features

- Tip: Suitable for samples with low moisture content, e.g. plastics
- Backlit graphic display, digit height 15 mm
- 1 Active drying process
- 2 Previous drying time

- 3 Current temperature
- 4 Unit for displaying the results
- 5 Current moisture content in %
- 6 Active heating profile
- 400 W halogen-quartz glass heater
- Excellent temperature control thanks to halogen technology, suitable for temperature-sensitive samples

STANDARD

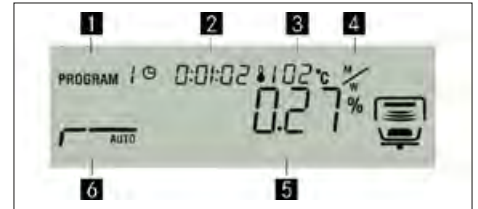


OPTION



KERN	DBS 60-3
Readability [d] Weight/Moisture (%)	0,001 g / 0,01 %
Weighing capacity [Max]	60 g
Reproducibility weight of sample 2 g*	0,15 %
Reproducibility weight of sample 10 g*	0,02 %
Display after drying	
Moisture [%] = Moisture content (M) from wet weight (W)	0 - 100 %
Dry content [%] = Dry weight (D) from [W]	100 - 0 %
ATRO [%] [(W-D) : D] · 100 %	0 - 999 %
Moisture content (M)	Absolute value in [g]
Temperature range (in steps up to)	50 °C - 200 °C (1 °C)
Drying modes	
	Standard drying Drying in levels Gentle drying Rapid drying
Switch-off criteria	
	• Automatic unrestricted switch-off (Selectable loss in weight 0,01% - 0,1% in 30 s) • Time controlled switch-off (1 min - 12 h) • Manual switch-off at the press of a button
Recall of measurement/ Log output	
	Interval can be set from 1 s - 10 min (Only when used with printer or PC)
Overall dimensions W×D×H	204×336×167 mm
Net weight	4,6 kg
Price excl. of VAT ex works €	1650,-
Option DAKKS Calibr. Certificate Mass	963-127, € 103,-
Option Factory Calibr. Certificate Temperature	964-305, € 174,-

* application-dependent



- Internal memory for automatic sequence of 10 complete drying processes and 100 drying processes carried out
- The last measured value remains visible in the display until the next measurement
- Password protection to prevent manipulation of stored settings, data, etc.
- Sample description for up to 99 samples, freely programmable, and is printed in the measuring protocol
- Date and time display as standard
- USB data interface for transferring weighing data to the PC, printer etc.
- 50 sample plates included
- Protective working cover included with delivery
- On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

Accessories

- Protective working cover, scope of delivery 5 items, KERN DBS-A03S05, € 52,-
- Sample plates aluminium, Ø 90 mm, unit of 80 pieces, KERN MLB-A01A, € 45,-
- Round fiberglass filter, medium mechanical stability, without organic binder, box of 100 pieces, KERN RH-A02, € 79,-
- Temperature calibration set consists of measuring sensor and display device, KERN DBS-A01, € 570,-
- USB 2.0 cable, KERN DBS-A04, € 28,-
- 7 BalanceConnection software for flexible measured value recording or transmission, compatible with Microsoft® Excel, Access and other applications, Scope of supplies: Download link for 1 license, KERN SCD-4.0-DL, € 210,-
- Thermal printer, KERN YKH-01, € 420,-
- Matrix needle printer, to print the weights on normal paper, ideal for long-term archiving, KERN 911-013, € 480,-



Moisture analyser with intuitive graphic display and step-by-step user guidance in 6 languages

Features

- Backlit LCD graphic display, digit height 11 mm
- 6 direct keys for rapid access to the main functions
- Home screen:
 - 1 Main menu
 - 2 Start drying process
 - 3 Select drying temperature
 - 4 Select shut-off criteria

- 5 Setting to zero/taring
- 6 Stand-by
- During measurement:
 - 7 Current temperature
 - 8 Current heating profile
 - 9 Active switch-off criteria
 - 10 Abort drying process
 - 11 Stop drying process
 - 12 Display current drying parameters
 - 13 Toggle the unit for displaying the results

STANDARD

CAL EXT

RS 232

GLP

UNIT

230 V

DMS

1 DAY

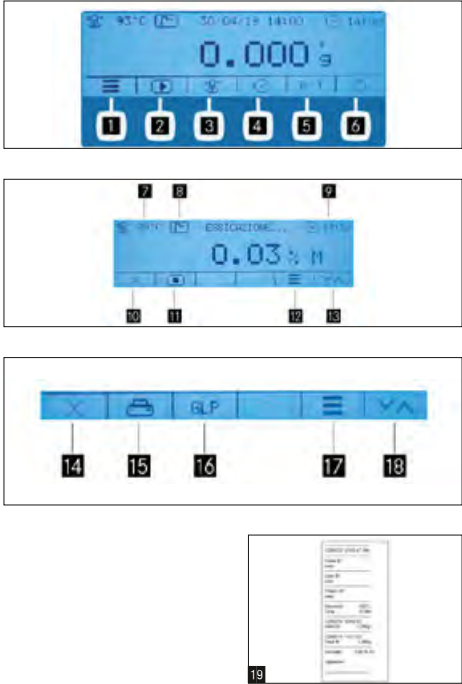
OPTION

DAKKS

+3 DAYS

KERN	DLB 160-3A
Readability [d] Weight/Moisture (%)	0,001 g / 0,01 %
Weighing capacity [Max]	160 g
Reproducibility weight of sample 2 g*	0,15 %
Reproducibility weight of sample 10 g*	0,05 %
Display after drying (Display can be switched over at any time)	
Moisture [%] = Moisture content (M) from wet weight (W)	0 - 100 %
Dry content [%] = Dry weight (D) from [W]	100 - 0 %
ATRO [%] [(W-D) : D] · 100 %	0 - 999 %
Moisture content (M)	Absolute value in [g]
Temperature range (in steps up to)	35 °C - 160 °C (1 °C)
Drying modes	Standard drying Rapid drying, preheating can be switched on
Switch-off criteria	· Automatic unrestricted switch-off (Selectable loss in weight 0,01 mg/30 s - 10 mg/30 s) · Time controlled switch-off (1 min - 12 h) · Manual switch-off at the press of a button
Recall of measurement	Interval can be set from 5 s - 250 s
Overall dimensions W×D×H	215×345×235 mm
Net weight	4,7 kg
Price excl. of VAT ex works €	1450,-
Option DAKKS Calibr. Certificate Mass	963-127, € 103,-
Option Factory Calibr. Certificate Temperature	964-305, € 174,-

*application-dependent



- At the end of the measurement:
- 14 Exit drying program
 - 15 Print measurement report
 - 16 (De)activate, edit GLP parameters
 - 17 Display detailed result
 - 18 Toggle the unit for displaying the results
 - 400 W halogen-quartz glass heater
 - User guidance in 6 languages (DE, EN, FR, IT, ES, PT)
 - Automatic taring when starting a measurement by closing the lid
 - The last measured value remains visible in the display until the next measurement
 - 19 Internal GLP; printout of balance ID, project ID, user ID, values determined by the drying process etc.
 - 10 sample plates included
 - Protective working cover included with delivery
 - On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

Accessories

- Protective working cover, scope of delivery 5 items, KERN ALJ-A01S05, € 52,-
- Sample plates aluminium, ø 90 mm, unit of 80 pieces, KERN MLB-A01A, € 45,-
- Round fiberglass filter, medium mechanical stability, without organic binder, box of 100 pieces, KERN RH-A02, € 79,-
- Temperature calibration set consists of measuring sensor and display device KERN DLB-A01N., € 570,-
- Thermal printer, KERN YKH-01, € 420,-
- Matrix needle printer, to print the weights on normal paper, ideal for long-term archiving, KERN 911-013, € 480,-

6



BENCH SCALES

Compact industrial weighing technology

Thanks to their compact dimensions, low weight, robust internal mechanism and the fact that they can be operated independent of mains power, bench scales can be used not only in a stationary situation, but also as mobile scales.

With weighing ranges between 3 kg and 65 kg, bench scales can cover a wide range of applications. Whether as a commissioning scale in the warehouse, for inventory purposes, on a production work station, in quality control, in small workshops, in service cars or in sales offices, bench scales are the first choice.

Durable stainless steel weighing plates, easy to read backlit displays, useful functions such as piece counting, PRE-TARE – subtraction of a known container weight, or ► **interfaces** to PC and printer – all these support the users in their daily work.

► **Multi-division balances and multi-range balances** cover a particularly wide range of applications. With these scales, the total weighing range is divided into subranges and begins with a high resolution read-out in the fine weighing range. If this range is exceeded the balance automatically switches to the higher weighing range with the lower resolution read-out.

All KERN bench scales have an adjustment program (CAL) to adjust the accuracy. This way, the high level of accuracy is guaranteed at all times, even during harsh everyday use. See *Test weights*

► **See the Glossary**

Quick-Finder Bench Scales

Readout	Weighing range	Weighing plate	Model	Price	Page									
[d] g	[Max] kg	W×D mm	KERN	excl. of VAT ex works €										
For an explanation on the pictos, see the front flap														
0,02	6	340×240	FKB 6K0.02	530,-	62	●	○	●	●	●	●	●	●	○
0,05	6	252×225	FCB 6K-5	330,-	61	●	○	●	●	●	●	●	●	○
0,05	8	340×240	FKB 8K0.05	510,-	62	●	○	●	●	●	●	●	●	○
0,05	16	340×240	FKB 16K0.05	550,-	62	●	○	●	●	●	●	●	●	○
0,1	8	252×225	FCB 8K0.1	275,-	61	●	○	●	●	●	●	●	●	○
0,1	8	340×240	FKB 8K0.1	360,-	62	●	○	●	●	●	●	●	●	○
0,1	12	252×225	FCB 12K-4	330,-	61	●	○	●	●	●	●	●	●	○
0,1	16	340×240	FKB 16K0.1	510,-	62	●	○	●	●	●	●	●	●	○
0,1	36	340×240	FKB 36K0.1	560,-	62	●	○	●	●	●	●	●	●	○
0,2	30	252×225	FCB 30K-4	330,-	61	●	○	●	●	●	●	●	●	○
0,2	36	340×240	FKB 36K0.2	560,-	62	●	○	●	●	●	●	●	●	○
0,2	65	340×240	FKB 65K0.2	540,-	62	●	○	●	●	●	●	●	●	○
0,5	15	340×240	FKB 15K0.5	385,-	62	●	○	●	●	●	●	●	●	○
1	3	253×228	FCE 3K1N	135,-	60	●							●	○
1	12	252×225	FCB 12K1	220,-	61	●	○	●	●	●	●	●	●	○
1	30	252×225	FCB 30K1	260,-	61	●	○	●	●	●	●	●	●	○
1	30	340×240	FKB 30K1	340,-	62	●	○	●	●	●	●	●	●	○
1	65	340×240	FKB 65K1	360,-	62	●	○	●	●	●	●	●	●	○
1 2	3 6	252×225	FCB 6K-3DM	300,-	61	○	○	●	●	●	●	●	●	○
2	6	253×228	FCE 6K2N	135,-	60	●							●	○
2 5	6 15	252×225	FCB 15K-3DM	300,-	61	○	○	●	●	●	●	●	●	○
5	10	320×260	ECE 10K-3N	120,-	59	●							●	○
5	10	320×260	ECB 10K-3N	140,-	59	●							●	○
5	15	253×228	FCE 15K5N	135,-	60	●							●	○
5 10	15 30	252×225	FCB 30K-3DM	300,-	61	○	○	●	●	●	●	●	●	○
10	20	320×260	ECE 20K-2N	120,-	59	●							●	○
10	20	320×260	ECB 20K-2N	140,-	59	●							●	○
10	30	253×228	FCE 30K10N	135,-	60	●							●	○
20	50	320×260	ECE 50K-2N	120,-	59	●							●	○
20	50	320×260	ECB 50K-2N	140,-	59	●							●	○
News 2025						● Standard ○ Option								



Plain, mobile, uncomplicated

Features

- Thanks to battery operation/rechargeable battery operation (optional), compact, light-weight construction, it is suitable for the use in several locations (production, warehouse, dispatch department, etc.)
- Particularly large weighing plate
- Very fast display: steady weight values within 2 s
- Simple and convenient 2-key operation

Technical data

- 1 KERN ECE**
- Large LCD display, digit height 21 mm
 - Dimensions weighing surface, plastic, W×D 320×260 mm
 - Net weight approx. 1,6 kg
- KERN ECB, see larger picture**
- Large backlit LCD display, digit height 21 mm
 - Dimensions weighing surface, stainless steel, W×D 320×260 mm
 - Net weight approx. 2,6 kg
- KERN ECE/ECB**
- Overall dimensions W×D×H 320×300×60 mm
 - Battery operation, 6×1.5 V AA standard, operating time up to 100 h, AUTO-OFF function to preserve the battery
 - Permissible ambient temperature 5 °C/35 °C

Accessories

- Internal rechargeable battery pack, operating time up to 30 h without backlight, charging time approx. 10 h, KERN PCB-A01, **€ 90,-**
- Rechargeable battery pack external, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruits, vegetables, etc., overall dimensions W×D×H 400×300×45 mm, KERN RFS-A02, **€ 75,-**
- External universal mains adapter, with universal input and optional input socket adapters for EU, CH, GB, US, KERN YKA-03N, **€ 38,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

CAL EXT

BATT

DMS

1 DAY

OPTION

ACCU

MULTI

DAKKS

+3 DAYS

Model	Weighing capacity	Readability	Reproducibility	Linearity	Price excl. of VAT ex works €	Options	
	[Max] kg	[d] g	g	g		DAkkS Calibr. Certificate	
						DAkkS KERN	€
KERN							
ECE 10K-3N	10	5	5	± 20	120,-	963-128	124,-
ECE 20K-2N	20	10	10	± 40	120,-	963-128	124,-
ECE 50K-2N	50	20	20	± 80	120,-	963-128	124,-
ECB 10K-3N	10	5	5	± 20	140,-	963-128	124,-
ECB 20K-2N	20	10	10	± 40	140,-	963-128	124,-
ECB 50K-2N	50	20	20	± 80	140,-	963-128	124,-



Entry-level bench scale – mobile, practical, lightweight

Features

- Simple and convenient 2-key operation
- Very fast display: steady weight values within 3 s
- **1** Ideal as a compact letter and parcel scale, especially where space is limited
- **2** Ideal as a grading, commissioning or simple checkweighing scale in production or dispatch
- Protective working cover included with delivery

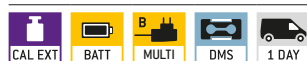
Technical data

- Large LCD display, digit height 25 mm
- Dimensions weighing surface, plastic, W×D 253×228 mm
- Overall dimensions W×D×H 270×323×110 mm
- Optional battery operation, 9 V block not included in scope of delivery, operating time up to 12 h, AUTO-OFF function to preserve the battery
- Net weight approx. 2,4 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN FCB-A02S05, **€ 52,-**
- **3** Stainless steel weighing plate, robust, removable, for easy cleaning, KERN FCE-A01, **€ 40,-**
- Internal rechargeable battery pack, operating time up to 20 h without backlight, charging time approx. 10 h, KERN FCB-A01, **€ 54,-**

STANDARD



OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Options	
						DAkkS Calibr. Certificate DAkkS KERN	€
FCE 3K1N	3	1	2	± 3	135,-	963-127	103,-
FCE 6K2N	6	2	2	± 4	135,-	963-128	124,-
FCE 15K5N	15	5	10	± 15	135,-	963-128	124,-
FCE 30K10N	30	10	10	± 30	135,-	963-128	124,-

NEW



The new FCB: Checkweighing and portioning scale with up to three interfaces, with optional verification

Features

- Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- Compact size
- KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay. Available as an option: RS-232, USB, Ethernet, WiFi, Bluetooth

- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers. For further information on KUP and KCP see page 18/19
- Thanks to battery operation/rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- Weighing with tolerance range: a visual and audible signal helps with portioning, dispensing or grading
- Summation of weight values
- Protective working cover included with delivery

Technical data

- Backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, W×D 252×225 mm
- Overall dimensions W×D×H 322×267×91 mm
- Net weight approx. 3,8 kg
- Permissible ambient temperature
KERN FCB: 0 °C/40 °C
KERN FCB-M: -10 °C/40 °C

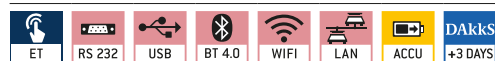
Accessories

- Protective working cover, scope of delivery 5 items, KERN YBA-A14S05, € 52,-
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, € 35,-
- Signal lamp for visual support of weighing with tolerance range. connection is only possible in combination with KUP-01 (RS-232 interface), KERN CFS-A03, € 310,-
- External data interface RS-232, interface cable included, KERN KUP-01, € 60,-
- External data interface USB, interface cable included, KERN KUP-03, € 75,-
- Ethernet interface adapter, KERN KUP-04, € 115,-
- WiFi interface adapter, KERN KUP-05, € 75,-
- Bluetooth interface adapter, KERN KUP-06, € 99,-
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13, € 75,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Smallest part weight (Normal) g/piece	Price excl. of VAT ex works €	Options			
							Verification	€	DAkkS	Certificate
KERN							KERN		DAkkS	
FCB 6K-5	6	0,05	-	-	0,5	330,-	-	-	963-128	124,-
FCB 8K0.1	8	0,1	-	-	1	275,-	-	-	963-128	124,-
FCB 12K-4	12	0,1	-	-	1	330,-	-	-	963-128	124,-
FCB 12K1	12	1	-	-	10	220,-	-	-	963-128	124,-
FCB 30K-4	30	0,2	-	-	2	330,-	-	-	963-128	124,-
FCB 30K1	30	1	-	-	10	260,-	-	-	963-128	124,-

Multi-division balance, with increasing or decreasing load, it switches automatically to the next largest or smallest weighing range [Max] and readout [d].

FCB 6K-3DM	3 6	1 2	1 2	20	2	300,-	965-228	84,-	963-128	124,-
FCB 15K-3DM	6 15	2 5	2 5	40	5	300,-	965-228	84,-	963-128	124,-
FCB 30K-3DM	15 30	5 10	5 10	100	10	300,-	965-228	84,-	963-128	124,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.

The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

New model



Technical data

- Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, W×D 340×240 mm
- Overall dimensions W×D×H, 350×390×120 mm
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 20 h
- Net weight approx. 7 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN FKB-A02S05, **€ 52,-**
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, **€ 35,-**
- Schnittstellenadapter USB, KERN KUP-03, **€ 75,-**
- Schnittstellenadapter RS-232, KERN KUP-01, **€ 60,-**
- Bluetooth interface adapter, KERN KUP-06, **€ 99,-**
- WiFi interface adapter, KERN KUP-05, **€ 75,-**
- Ethernet interface adapter, KERN KUP-04, **€ 115,-**
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13, **€ 75,-**
- Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruits, vegetables, etc., overall dimensions W×D×H 400×300×45 mm, KERN RFS-A02, **€ 75,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

High resolution bench scale with large weighing range and robust stainless steel weighing plate

Features

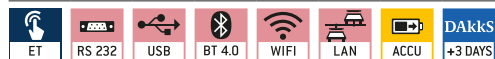
- Thanks to the high resolution of up to 360.000 points it is ideal for high-precision weighing in the industrial field
- Robust plastic die-cast housing: maintains the stability, protects the weighing technology elements and is robust enough to cope with everyday use
- KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay

- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- Freely programmable weighing unit, e.g. display direct in special units such as length of wire g/m, surface weight g/m², or else
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard
- Protective working cover included with delivery

STANDARD



OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Smallest part weight (Normal) g/piece	Resolution Points	Price excl. of VAT ex works €	Options	
								DAkkS Calibr. Certificate	
KERN								DAkkS KERN	€
FKB 6K0.02	6	0,02	0,04	± 0,1	0,2	300.000	530,-	963-128	124,-
FKB 8K0.05	8	0,05	0,05	± 0,15	0,5	160.000	510,-	963-128	124,-
FKB 16K0.05	16	0,05	0,1	± 0,25	0,5	320.000	550,-	963-128	124,-
FKB 8K0.1	8	0,1	0,1	± 0,3	1	80.000	360,-	963-128	124,-
FKB 16K0.1	16	0,1	0,1	± 0,3	1	160.000	510,-	963-128	124,-
FKB 15K0.5	15	0,5	0,5	± 1,5	10	30.000	385,-	963-128	124,-
FKB 36K0.1	36	0,1	0,2	± 0,5	1	360.000	560,-	963-128	124,-
FKB 36K0.2	36	0,2	0,4	± 1	2	180.000	560,-	963-128	124,-
FKB 65K0.2	65	0,2	0,4	± 1	2	325.000	540,-	963-129	153,-
FKB 30K1	30	1	1	± 3	20	30.000	340,-	963-128	124,-
FKB 65K1	65	1	1	± 3	20	65.000	360,-	963-129	153,-



FOOD

(KITCHEN, STAINLESS STEEL, IP65...68 PROTECTION)

KERN scales – without fear of water!

Scales used in industrial situations or the food industry are often exposed to extreme stresses and strains. Water, oils, fats, varnish, dust, dirt, flour, small parts etc. are all natural enemies of a scale. In industries such as the food, chemical, manufacturing industries, etc., scales must be able to cope with these stressors without it affecting their performance.

For use in such harsh environmental conditions, levels of protection are defined, which specify which environmental stressors a system can be exposed to with respect to the level of contact, foreign object and moisture protection, without damage being caused to the unit.

These levels of protection are described in the following standard: “DIN EN 60529: protection types through housing” The IP code usually consists of a two-digit combination, which gives the relevant level of protection, e.g. IP68. The first digit specifies the protection level for contact protection and protection against foreign bodies (dust protection), the second digit is for the water and moisture protection (protection against splashes of water).

All stainless steel components of the IP65...68 protected KERN stainless steel scales are made of corrosion-resistant steel of quality class 1.4301 (DIN X5CrNi18-10). The material properties support you in your ► **HACCP**-compliant quality system.

► [See the Glossary](#)

Extract from the standard: “DIN EN 60529: protection types through housing”:

KERN-Pictogram	1. digit	Specification	2. digit	Specification
	6	Dustproof	5	Protection against jets of water (nozzle) from any angle (cleaning with a damp cloth)
	6	Dustproof	6	Protection against powerful jets of water
	6	Dustproof	7	Protection against temporary immersion
	6	Dustproof	8	Protection against continuous immersion (designed for continuous use in wet areas, submersion is possible depending on the pressure (water depth)

Quick-Finder Food (kitchen/stainless steel/IP65...68 protection)

Readout	Weighing range	Model	Price excl. of VAT	Page	        									
[d] g	[Max] kg	KERN	ex works €		For an explanation on the pictos, see the front flap									
0,1	0,5	FOB 500-1S	90,-	69										
0,1	0,5	FOB 0.5K-4NS	125,-	69										
0,1	3	FCF 3K-4	220,-	67										
0,2	1,5	WTB 1K-4N	285,-	71										
0,2	1,5	FFN 1K-4N	325,-	72										
0,2	3	FOB 3K-4NL	330,-	70										
0,5	1,5	FOB 1K-4LM	335,-	68										
0,5	1,5	FOB 1.5K0.5	240,-	70										
0,5	1,5	WTB 1K-4NM	300,-	71										
0,5	1,5	FFN 1K-4NM	340,-	72										
0,5	3	WTB 3K-4N	285,-	71										
0,5	3	FFN 3K0.5IPN	325,-	72										
0,5	3	FXN 3K-4N	460,-	73										
0,5	6	SXC 6K-4	1220,-	74										
0,5 1	5 7,5	FOB 7K-4NL	295,-	70										
1	3	FOB 3K-3LM	340,-	68										
1	3	FOB 3K1	240,-	70										
1	3	WTB 3K-3NM	300,-	71										
1	3	FFN 3K1IPM	340,-	72										
1	3	FXN 3K-3M	490,-	73										
1	5	FGE 5K-3S05	115,-	66										
1	5	FOB 5K1S	90,-	69										
1	5	FOB 5K-3NS	125,-	69										
1	6	WTB 6K-3N	285,-	71										
1	6	FFN 6K1IPN	325,-	72										
1	6	FXN 6K-3N	460,-	73										
1	10	SFB 10K1HIP	850,-	76										
1	15	FGE 10K-3S05	170,-	66										
1	15	SXC 10K-3	1220,-	74										
1	15	SXC 10K-3L	1270,-	74										
1	30	FCF 30K-3	220,-	67										
1 2	3 6	SXC 6K-3M	1130,-	74										
1 2	8 15	FOB 10K-3NL	295,-	70										
2	6	FOB 6K-3LM	335,-	68										
2	6	FOB 6K2	240,-	70										
2	6	WTB 6K-3NM	300,-	71										
2	6	FFN 6K2IPM	340,-	72										
2	6	FXN 6K-3M	490,-	73										
2	15	WTB 10K-3N	285,-	71										
2	15	FFN 15K2IPN	325,-	72										
2	15	FXN 10K-3N	460,-	73										
2	20	SFB 20K2HIP	850,-	76										
2	30	SXC 30K-3	1220,-	74										
2	30	SXC 30K-3L	1280,-	74										
2 5	6 15	SXC 10K-3M	1130,-	74										
2 5	6 15	SXC 10K-3LM	1180,-	74										
2 5	16 30	FOB 30K-3NL	295,-	70										
5	15	FOB 10K-3LM	335,-	68										
5	15	WTB 10K-3NM	300,-	71										
5	15	FFN 15K5IPM	340,-	72										
5	15	FXN 10K-3M	490,-	73										
5	15	SFB 15K5HIPM	870,-	76										
5	25	FFN 25K5IPN	325,-	72										
5	30	WTB 30K-3N	285,-	71										
5	30	FXN 30K-3N	460,-	73										
5	50	SFB 50K5LHIP	820,-	76										
5	50	SFB 50K5HIP	850,-	76										
5	50	SFB 50K-3XL	970,-	76										
5	60	SXC 60K-3	1220,-	74										
5	60	SXC 60K-3L	1280,-	74										
5 10	15 30	SXC 30K-3M	1130,-	74										
5 10	15 30	SXC 30K-3LM	1180,-	74										
10	25	FFN 25K10IPM	340,-	72										
10	30	WTB 30K-2NM	300,-	71										
10	30	FXN 30K-2M	490,-	73										
10	30	SFB 30K10HIPM	870,-	76										
10	100	SFB 100K10HIP	880,-	76										
10	100	SFB 100K-2XL	1430,-	76										
10	150	SXC 100K-2	1220,-	74										
10	150	SXC 100K-2L	1410,-	74										
10 20	30 60	SXC 60K-2M	1130,-	74										

● Standard ○ Option

Quick-Finder Food (kitchen/stainless steel/IP65...68 protection)

Readout	Weighing range	Model	Price	Page									
[d]	range		excl. of VAT		For an explanation on the pictos, see the front flap								
g	kg	KERN	ex works										
			€										
10 20	30 60	SXC 60K-2LM	1180,-	74	☐	☒	☐	☐			☒		☐
20	60	SFB 60K20LHIPM	890,-	76	☐	☒	☐	☐					☒
20	60	SFB 60K-2XLM	1130,-	76	☐	☒	☐	☐					☒
20	300	SXC 300K-2	1500,-	74		☒	☐	☐			☒		☐
20 50	60 150	SXC 100K-2M	1130,-	74	☐	☒	☐	☐			☒		☐
20 50	60 150	SXC 100K-2LM	1310,-	74	☐	☒	☐	☐			☒		☐
50	150	SFB 100K-2HM	910,-	76	☐	☒	☐	☐					☒
50	150	SFB 100K-2LM	1210,-	76	☐	☒	☐	☐					☒
50	150	SFB 100K-2XLM	1450,-	76	☐	☒	☐	☐					☒
50 100	150 300	SXC 300K-2M	1410,-	74	☐	☒	☐	☐			☒		☐

● Standard ○ Option



SET
5x



1 FGE 5K-3S05

2 FGE 10K-3S05



7

Precise design kitchen scale for kitchen, cafeteria, gastronomy

Features

- FGE 10K-3S05: Weighing plate made out of safety glass
- Easy and hygienic cleaning
- Low overall height for secure footing and space-saving storage
- Secure and non-slip positioning with rubber feet
- Very easy to use
 - 1 FGE 5K-3S05: 2 Buttons
 - 2 FGE 10K-3S05: 1 Button
- Comfortable taring with just one keystroke. For example, you can tare a bowl before starting a formulation. In addition, you can tare each time you weigh in a formulation ingredient, so that you can weigh in the next formulation ingredient with the weight indicated in the formula without having to do any calculations
- Integrated AUTO-OFF function to preserve the batteries
- Large high-contrasted display that is easy to read
- 3 Delivered in single design packaging

Technical data

- 1 FGE 5K-3S05
 - Large backlit LCD display, Digit height 18 mm
 - Overall dimensions W×D×H 152×230×15 mm
 - Dimensions weighing surface, acrylic, W×D 152×230 mm
 - Ready for use: Batteries included, 2×CR2032
- 2 FGE 10K-3S05
 - Large, luminescent LED segments display, Digit height 22 mm
 - Overall dimensions W×D×H 272×250×22 mm
 - Dimensions weighing surface, glass, W×D 272×205 mm
 - Ready for use: Batteries included, 3×1.5 V AAA

Note: The models with the suffix -S05 are delivered in a set of 5 units. i.e. the price given in the table refers to 5 items. Cannot be delivered individually

STANDARD

CAL EXT

UNIT

BATT

DMS

1 DAY

OPTION

DAKKS

+3 DAYS

Model	Weighing capacity	Readability	Price excl. of VAT ex works €	Options	
				DAKKS Calibr. Certificate	
	[Max] kg	[d] g		DAKKS KERN	€
KERN					
FGE 5K-3S05	5	1	115,-	963-127S05	515,-
FGE 10K-3S05	15	1	170,-	963-128S05	620,-



Compact bench scale with multi-purpose functionality and a high level of accuracy for use in industry, gastronomy and kitchen

- Features**
- Ideal as a
 - Checkweigher in the catering trade, cafeterias, school kitchens
 - compact letter and parcel scale, especially in constricted spaces
 - grading or commissioning balance or simple checkweigher in production or dispatch
 - Simple and convenient 5-key operation
 - Very fast display: steady weight values within 3 s
 - Thanks to battery operation/rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department, etc.)
 - Protective working cover included with delivery

- Technical data**
- Large backlit LCD display, digit height 25 mm
 - Dimensions weighing surface, stainless steel, WxD 253x228 mm
 - Overall dimensions WxDxH 270x345x106 mm
 - Optional battery operation, 9 V block not included in scope of delivery, operating time up to 20 h. AUTO-OFF function to preserve the battery
 - Net weight approx. 2,8 kg
 - Permissible ambient temperature 5 °C/35 °C

- Accessories**
- Protective working cover, scope of delivery 5 items, KERN FCF-A01S05, € 52,-
 - Internal rechargeable battery pack, operating time up to 120 h without backlight, charging time approx. 16 h, KERN GAB-A04, € 42,-

STANDARD

CAL EXT

PCS

RECIPE

PERCENT

UNIT

MOVE

BATT

MULTI

DMS

1 DAY

OPTION

ACCU

DAKKS +3 DAYS

Model	Weighing capacity	Readability	Reproducibility	Linearity	Smallest part weight (Normal) g/piece	Price excl. of VAT ex works €	Options	
							DAkKS Calibr. Certificate	
	[Max] kg	[d] g	g	g			DAkKS KERN	€
KERN FCF 3K-4	3	0,1	0,1	± 0,3	2	220,-	963-127	103,-
KERN FCF 30K-3	30	1	1	± 3	20	220,-	963-128	124,-



7



Compact stainless steel bench scale with special checkweighing display for even more efficient working, verification optional

Features

- **1** Innovative weighing with tolerance range: The colour of the display changes depending on the weight (too light/ok/too heavy) and is an aid to help with portioning, dosing and grading
- Thanks to the stainless steel design of the housing and platform with smooth surface, the scale is rust-free and easy to clean
- **2** Ideal for the increased hygienic requirements in the food industries
- Thanks to battery operation, compact, light-weight construction, it is suitable for the use in several locations (kitchens, sales offices, cafeterias, food industry laboratories, etc.)
- Your support in a HACCP-compliant quality system

- Protection against dust and water splashes IP65 (only when using battery)
- Increased protection against humidity through waterproof silicone sealing of the load cell, electronics and soldering joints
- Secure and non-slip positioning with rubber feet
- Mains adapter included with the delivery
- Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, W×D 248×198 mm
- Overall dimensions W×D×H 256×285×100 mm
- Battery operation, 4×1.5 V AA standard, operating time up to 48 h. AUTO-OFF function to preserve the battery
- Net weight approx. 3,8 kg
- Permissible ambient temperature 0 °C/40 °C

Accessories

- **3** Protective working cover, scope of delivery 5 items, KERN FOB-A13S05, **€ 52,-**
- **4** Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruits, vegetables, etc., overall dimensions W×D×H 400×300×45 mm, KERN RFS-A02, **€ 75,-**

STANDARD



OPTION



FACTORY



Note: Official verification is mandatory for commercial trade

Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Price excl. of VAT ex works €	Options			
						Verification M KERN	€	DAkkS KERN	Certificate €
KERN									
FOB 1K-4LM	1,5	0,5	0,5	10	335,-	965-227	65,-	963-127	103,-
FOB 3K-3LM	3	1	1	20	340,-	965-227	65,-	963-127	103,-
FOB 6K-3LM	6	2	2	40	335,-	965-228	84,-	963-128	124,-
FOB 10K-3LM	15	5	5	100	335,-	965-228	84,-	963-128	124,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.
The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.



Compact stainless steel balance for weighing, checking and portioning in the smallest of spaces

Features

- Thanks to the stainless steel design of the housing and platform with smooth surface, the scale is rust-free and easy to clean
- High mobility: thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations (kitchen, sales office, cafeteria, food industry-laboratory etc.)
- Secure and non-slip positioning with rubber feet
- Protection against dust and water splashes IP65 (only when using battery)
- Your support in a HACCP-compliant quality system
- Particularly flat design
- Protective working cover included with delivery

Accessories

- External mains adapter, KERN YKA-46, € 45,-

FOB-S

- Protective working cover, scope of delivery 5 items, KERN FOB-A12S05, € 52,-

FOB-NS

- Protective working cover, scope of delivery 5 items, KERN FOB-A11S05, € 52,-

STANDARD

CAL EXT

UNIT

IP 65

BATT

DMS

1 DAY

OPTION

230 V

DAkKS

+3 DAYS

Model KERN	FOB 500-1S	FOB 5K 1S	FOB 0.5K-4NS	FOB 5K-3NS
Weighing capacity [Max] g	500	5000	500	5000
Readability [d] g	0,1	1	0,1	1
Display without backlight, digit height	LCD, 20 mm		LCD, 20 mm	
Dimensions of weighing surface W×D	125×155 mm		120×150 mm	
Overall dimensions W×D×H	155×175×40 mm		150×170×40 mm	
Batteries included with delivery	9 V block		9 V block	
Operating time up to	20 h		20 h	
Net weight	0,70 kg		0,80 kg	
Permissible ambient temperature	10 °C – 40 °C		10 °C – 35 °C	10 °C – 40 °C
Price, excl. of VAT, ex works, €	90,-		125,-	
Option DAkKS Calibr. Certificate	963-127, € 103,-		963-127, € 103,-	



FOB



FOB-NL



7

Compact stainless steel balance with large weighing range

Features

- KERN FOB: Innovative weighing with tolerance range: The colour of the display changes depending on the weight (too light/ok/too heavy) and is an aid to help with portioning, dosing and grading
- KERN FOB-NL: Protection against dust and water splashes IP67 (only when using battery)
- Thanks to the stainless steel design of the housing and platform with smooth surface, the scale is rust-free and easy to clean

- Increased protection against humidity through waterproof silicone sealing of the load cell, electronics and soldering joints
- Your support in a HACCP-compliant quality system
- Ideal for the increased hygienic requirements in the food industries
- Thanks to battery operation/rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- Secure and non-slip positioning with rubber feet

Accessories

- Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruits, vegetables, etc., overall dimensions W×D×H 400×300×45 mm, KERN RFS-A02, **€ 75,-**

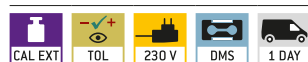
FOB

- Protective working cover, scope of delivery: 5 items, KERN FOB-A05S05, **€ 52,-**
- Internal rechargeable battery pack, operating time up to 24 h without backlight, charging time approx. 8 h, KERN FOB-A07, **€ 60,-**

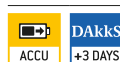
FOB-NL

- Protective working cover, scope of delivery: 5 items, KERN FOB-A13S05, **€ 52,-**
- External mains adapter, KERN YKA-29, **€ 43,-**

STANDARD



OPTION



STANDARD

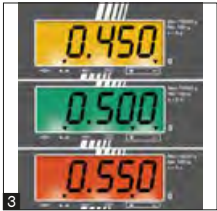


OPTION



Model KERN	FOB 1.5K0.5	FOB 3K1	FOB 6K2	FOB 3K-4NL	FOB 7K-4NL	FOB 10K-3NL	FOB 30K-3NL
Weighing capacity [Max] kg	1,5	3	6	3	5 7,5	8 15	16 30
Readability [d] g	0,5	1	2	0,2	0,5 1	1 2	2 5
LCD display backlight, digit height	yes, 20 mm			no, 25 mm			
Dimensions of weighing surface W×D	175×165 mm			252×200 mm			
Overall dimensions W×D×H	235×175×55 mm		243×183×54 mm	285×255×90 mm			
Power supply	Power supply unit			Battery, 4×1.5 V AA, operating time up to 48 h			
Net weight	1,8 kg	2,0 kg		3,8 kg			
Permissible ambient temperature	5 °C – 35 °C			5 °C – 35 °C			
Price, excl. of VAT, ex works, €	240,–	240,–	240,–	330,–	295,–	295,–	295,–
Option DAKkS Calibr. Certificate	963-127, € 103,–	963-127, € 103,–	963-128, € 124,–	963-127, € 103,–	963-128, € 124,–	963-128, € 124,–	963-128, € 124,–

*Multi-division balance, with increasing or decreasing load, it switches automatically to the next largest or smallest weighing range [Max] and readout [d].



Ideal for food industry, thanks to its IP65 protection and special checkweighing display, verification optional

Features

- Ideal for the increased hygienic requirements in the food industries
- Your support in a HACCP-compliant quality system
- 1 Protection against dust and water splashes IP65 (only when using rechargeable battery pack)
- Very fast display: steady weight values within 2 s
- 2 Second display on the back of the balance
- Compact size
- 3 Innovative weighing with tolerance range: The colour of the display changes depending on the weight (too light/ok/too heavy) and is an aid to help with portioning, dosing and grading

- Thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- Recessed grips on the underside of the scale for easy transportation
- Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, WxD 263x203 mm
- Overall dimensions WxDxH 286x316x126,5 mm
- Net weight approx. 3,2 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN RFB-A01S05, € 52,-
- Internal rechargeable battery pack, operating time up to 50 h without backlight, charging time approx. 12 h, KERN WTB-A01N, € 38,-
- 4 Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruits, vegetables, etc., overall dimensions WxDxH 400x300x45 mm, KERN RFS-A02, € 75,-

STANDARD

CAL EXT

TOL

IP 65

MULTI

DMS

1 DAY

OPTION

ACCU

DAKKS +3 DAYS

FACTORY

M +3 DAYS

WTB-NM

Model	Weighing capacity	Readability	Verification value	Minimal load	Price excl. of VAT ex works €	Options			
						Verification	DAkkS Calibr. Certificate		
KERN	[Max] kg	[d] g	[e] g	[Min] g		KERN	€	DAKKS KERN	€
WTB 1K-4N	1,5	0,2	-	-	285,-	-	-	963-127	103,-
WTB 3K-4N	3	0,5	-	-	285,-	-	-	963-127	103,-
WTB 6K-3N	6	1	-	-	285,-	-	-	963-128	124,-
WTB 10K-3N	15	2	-	-	285,-	-	-	963-128	124,-
WTB 30K-3N	30	5	-	-	285,-	-	-	963-128	124,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.

The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

WTB 1K-4NM	1,5	0,5	0,5	10	300,-	965-227	65,-	963-127	103,-
WTB 3K-3NM	3	1	1	20	300,-	965-227	65,-	963-127	103,-
WTB 6K-3NM	6	2	2	40	300,-	965-228	84,-	963-128	124,-
WTB 10K-3NM	15	5	5	100	300,-	965-228	84,-	963-128	124,-
WTB 30K-2NM	30	10	10	200	300,-	965-228	84,-	963-128	124,-



7

All-round bench scale, protected by stainless steel and IP65 rating, verification optional

Features

- **1** Ideal for the ever-increasing hygienic requirements in the food, pharmaceutical and chemical industries
- Your support in a HACCP-compliant quality system
- **2** Ideal for the robust industrial applications
- **3** Protection against dust and water splashes IP65 (only when using rechargeable battery pack)
- Thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (kitchens, sales offices, cafeterias, food industry laboratories, etc.)
- Thanks to the stainless steel design of the housing and platform with smooth surface, the scale is rust-free and easy to clean
- Recessed grips on the underside of the scale for easy transportation

Technical data

- Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, W×D 233×193 mm
- Overall dimensions W×D×H 243×300×127 mm
- Rechargeable battery pack integrated, as standard, operating time up to 50 h without backlight, charging time approx. 12 h
- Net weight approx. 4,0 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruits, vegetables, etc., overall dimensions W×D×H 400×300×45 mm, KERN RFS-A02, **€ 75,-**

STANDARD



3

OPTION



FACTORY



FFN-M

Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Price excl. of VAT ex works €	Options			
						Verification M KERN	€	DAkkS Calibr. Certificate DAkkS KERN	€
KERN									
FFN 1K-4N	1,5	0,2	-	-	325,-	-	-	963-127	103,-
FFN 3K0.5IPN	3	0,5	-	-	325,-	-	-	963-127	103,-
FFN 6K1IPN	6	1	-	-	325,-	-	-	963-128	124,-
FFN 15K2IPN	15	2	-	-	325,-	-	-	963-128	124,-
FFN 25K5IPN	25	5	-	-	325,-	-	-	963-128	124,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.

The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

FFN 1K-4NM	1,5	0,5	0,5	10	340,-	965-227	65,-	963-127	103,-
FFN 3K1IPM	3	1	1	20	340,-	965-227	65,-	963-127	103,-
FFN 6K2IPM	6	2	2	40	340,-	965-228	84,-	963-128	124,-
FFN 15K5IPM	15	5	5	100	340,-	965-228	84,-	963-128	124,-
FFN 25K10IPM	25	10	10	200	340,-	965-228	84,-	963-128	124,-



Bench scale, protected by stainless steel and protection type IP68, verification optional

Features

- Ideal for the increased hygienic requirements in the food industries
- Your support in a HACCP-compliant quality system
- Ideal for the robust industrial applications
- Thanks to the stainless steel design of the housing and platform with smooth surface, the scale is rust-free and easy to clean
- **1** Dust and splash water protection type IP68. Therefore very robust and durable. Ideal for rough environmental conditions
- Very fast display: steady weight values within 2 s
- Thanks to battery operation, compact, light-weight construction, it is suitable for the use in several locations (kitchens, sales offices, cafeterias, food industry laboratories, etc.)

- **2** Recessed grips on the underside of the scale for easy transportation
- Weighing with tolerance range: a visual and audible signal helps with portioning, dispensing or grading

Technical data

- Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, W×D 236×195 mm
- Ready for use: Batteries standard, 4×1.5 V Size D, operating time approx. 200 h. AUTO-OFF function to preserve the battery
- Net weight approx. 3,2 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- **3** Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruits, vegetables, etc., overall dimensions W×D×H 400×300×45 mm, KERN RFS-A02, **€ 75,-**

STANDARD

CAL EXT

PCS

UNIT

TOL

IP 68

BATT

DMS

1 DAY

OPTION

DAkKS

+3 DAYS

FACTORY

M

+3 DAYS

FXN-M

Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Smallest part weight (Normal) g/piece	Price excl. of VAT ex works €	Options			
							Verification	€	DAkKS Calibr.	Certificate
KERN									DAKKS KERN	€
FXN 3K-4N	3	0,5	-	-	5	460,-	-	-	963-127	103,-
FXN 6K-3N	6	1	-	-	10	460,-	-	-	963-128	124,-
FXN 10K-3N	15	2	-	-	20	460,-	-	-	963-128	124,-
FXN 30K-3N	30	5	-	-	50	460,-	-	-	963-128	124,-
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.										
FXN 3K-3M	3	1	1	20	5	490,-	965-227	65,-	963-127	103,-
FXN 6K-3M	6	2	2	40	10	490,-	965-228	84,-	963-128	124,-
FXN 10K-3M	15	5	5	100	20	490,-	965-228	84,-	963-128	124,-
FXN 30K-2M	30	10	10	200	50	490,-	965-228	84,-	963-128	124,-

1 ONLY WHILE STOCKS LAST

Note: Official verification is mandatory for commercial trade



Interlinked for industry of the future: Stainless steel platform scale with up to four data interfaces and optional alibi memory, with optional verification

Features

- Ideal for the robust industrial applications
- Platform: made entirely of stainless steel, hermetically welded stainless steel load cell with protection against dust and water splashes IP68
- Display device: stainless steel, dust and splash water protection IP68, integrated power supply
- Ideal for the increased hygienic requirements in the food industries
- Superior display size: digit height 48 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- The exchange of data and control commands is optional using up to four interfaces to suit individual requirements: two wired connections (RS-232, Ethernet, USB or analogue module) and two wireless connections (WiFi, Bluetooth)

- Each interface can be set up separately, e.g.:
 - Interface 1 (WiFi): Continuous sending to a PC for documentation of a process
 - Interface 2 (RS-232): Print stable weight
 - Interface 3 (analogue module): Controlling a device when the target weight is reached
 - Interface 4 (Bluetooth): Continuous sending to a tablet to monitor a process
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- Available as an option with alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further

Technical data

- Large backlit LCD display, digit height 48 mm
- Weighing platform dimensions W×D×H, stainless steel
 - A** 300×240×107 mm
 - B** 400×300×111 mm
 - C** 400×300×123 mm
 - D** 500×400×120 mm
 - E** 500×400×126 mm
 - F** 650×500×139 mm
- Dimensions of display device W×D×H 232×150×80 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C



Accessories

- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, **€ 35,-**
- Stand to be screwed onto the platform
Height of stand approx. 330 mm,
KERN SXC-A01, **€ 95,-**
1 Height of stand approx. 600 mm,
KERN SFB-A01, **€ 110,-**
- Internal data interface RS-232, interface cable included, KERN KUM-01, **€ 120,-**
- Internal data interface USB, interface cable included, KERN KUM-03, **€ 120,-**
- Internal data interface Ethernet, interface cable included, KERN KUM-04, **€ 165,-**
- Internal data interface WiFi,
KERN KUM-05, **€ 95,-**

- Internal data interface Bluetooth,
KERN KUM-06, **€ 135,-**
- Analogue module, KERN KUM-08, **€ 145,-**
- Memory module with real time clock (alibi memory), KERN YMM-06, **€ 160,-**
- ESD drain to protect against electrostatic discharge e.g. for electrostatically-charged weighing objects or people who work with the scale, KERN YGR-01, **€ 60,-**
- Signal lamp for visual support of weighing with tolerance range (only in combination with Data interface RS-232 KERN YKUM-01), KERN CFS-A03, **€ 310,-**
- Roller conveyor attachment, with smooth-running, hot-dip galvanised steel rollers with ball bearings, robust aluminium profile frame for models with weighing plate size

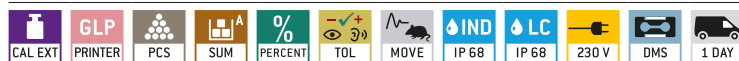
B, C KERN YRO-01, **€ 830,-**

D, E KERN YRO-02, **€ 870,-**

F KERN YRO-03, **€ 1200,-**

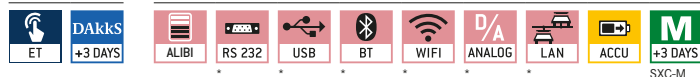
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION

FACTORY



*Note: only two wired connections (RS-232, Ethernet, USB or analogue module) and two wireless connections (WiFi, Bluetooth) can be used at the same time

Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options		
								Verification	DAkkS	Certificate
KERN								KERN	KERN	
SXC 6K-4	6	0,5	-	-	6	A	1220,-	-	963-128	124,-
SXC 10K-3	15	1	-	-	7	A	1220,-	-	963-128	124,-
SXC 10K-3L	15	1	-	-	12	B	1270,-	-	963-128	124,-
SXC 30K-3	30	2	-	-	12	B	1220,-	-	963-128	124,-
SXC 30K-3L	30	2	-	-	22	D	1280,-	-	963-128	124,-
SXC 60K-3	60	5	-	-	12	C	1220,-	-	963-129	153,-
SXC 60K-3L	60	5	-	-	22	E	1280,-	-	963-129	153,-
SXC 100K-2	150	10	-	-	12	E	1220,-	-	963-129	153,-
SXC 100K-2L	150	10	-	-	20	F	1410,-	-	963-129	153,-
SXC 300K-2	300	20	-	-	20	F	1500,-	-	963-129	153,-

Multi-range balance with high-resolution display, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range

SXC 6K-3M	3 6	1 2	1 2	20 40	7	A	1130,-	965-228	84,-	963-128	124,-
SXC 10K-3M	6 15	2 5	2 5	40 100	7	A	1130,-	965-228	84,-	963-128	124,-
SXC 10K-3LM	6 15	2 5	2 5	40 100	8	B	1180,-	965-228	84,-	963-128	124,-
SXC 30K-3M	15 30	5 10	5 10	100 200	11	B	1130,-	965-228	84,-	963-128	124,-
SXC 30K-3LM	15 30	5 10	5 10	100 200	12	D	1180,-	965-228	84,-	963-128	124,-
SXC 60K-2M	30 60	10 20	10 20	200 400	11	C	1130,-	965-229	110,-	963-129	153,-
SXC 60K-2LM	30 60	10 20	10 20	200 400	12	E	1180,-	965-229	110,-	963-129	153,-
SXC 100K-2M	60 150	20 50	20 50	400 1000	12	E	1130,-	965-229	110,-	963-129	153,-
SXC 100K-2LM	60 150	20 50	20 50	400 1000	20	F	1310,-	965-229	110,-	963-129	153,-
SXC 300K-2M	150 300	50 100	50 100	1000 2000	20	F	1410,-	965-229	110,-	963-129	153,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.



7

Stainless steel platform scales with IP65/67 protection, also with XL platform or optional verification

Features

- Ideal for the robust industrial applications
- Display device: stainless steel, protection against dust and water splashes IP65, (only when using rechargeable battery pack)
- Platform: made entirely of stainless steel, silicone-coated Stainless Steel load cell, protection against dust and water splashes IP67
- 1** KERN SFB-H: Column, standard, for models with weighing plate size
 - A** Height of stand approx. 200 mm
 - B** Height of stand approx. 400 mm

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of display device W×D×H 266×165×96 mm
- Weighing platform dimensions W×D×H, stainless steel
 - A** 300×240×107 mm **B** 400×300×111 mm
 - C** 500×400×120 mm **D** 650×500×139 mm
- Rechargeable battery pack integrated, as standard, operating time up to 35 h without backlight, charging time approx. 12 h
- Permissible ambient temperature -10 °C/40 °C

Accessories

- 2** KERN SFB: Stand, to be screwed onto the platform, height of stand approx. 600 mm, KERN SFB-A01, **€ 110,-**
- Data interface RS-232, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KFN-A01, **€ 225,-**
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification, KERN KFB-A03, **€ 160,-**
- Analogue module, must be ordered at purchase 0-10 V: KERN KFB-A04, **€ 170,-**
4-20 mA: KERN KFB-A05, **€ 170,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

*Please note: only one optional interface can be fitted for each device

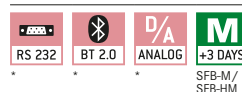
STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Weighing plate	Net weight approx. kg	Price excl. of VAT ex works €	Options			
								Verification	DAkks	Calibr.	Certificate
KERN								M KERN	€	DAkks KERN	€
SFB 50K-3XL	50	5	-	-	C	14	970,-	-	-	963-128	124,-
SFB 100K-2XL	100	10	-	-	D	24	1430,-	-	-	963-129	153,-
3 With elevated display											
SFB 10K1HIP	10	1	-	-	A	8	850,-	-	-	963-128	124,-
SFB 20K2HIP	20	2	-	-	A	8	850,-	-	-	963-128	124,-
SFB 50K5HIP	50	5	-	-	A	8	850,-	-	-	963-128	124,-
SFB 50K5LHIP	50	5	-	-	B	10	820,-	-	-	963-128	124,-
SFB 100K10HIP	100	10	-	-	B	10	880,-	-	-	963-129	153,-
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.											
SFB 60K-2XLM	60	20	20	400	C	14	1130,-	965-229	110,-	963-129	153,-
SFB 100K-2LM	150	50	50	1000	C	14	1210,-	965-229	110,-	963-129	153,-
SFB 100K-2XLM	150	50	50	1000	D	24	1450,-	965-229	110,-	963-129	153,-
3 With elevated display											
SFB 15K5HIPM	15	5	5	100	A	8	870,-	965-228	84,-	963-128	124,-
SFB 30K10HIPM	30	10	10	200	A	8	870,-	965-228	84,-	963-128	124,-
SFB 60K20LHIPM	60	20	20	400	B	10	890,-	965-229	110,-	963-129	153,-
SFB 100K-2HM	150	50	50	1000	B	10	910,-	965-229	110,-	963-129	153,-

8



PRICE COMPUTING SCALES

Price computing scales are used wherever the price of goods is calculated dependent on the weight of the goods. These scales are subject to obligatory verification (► **Verification**) in accordance with European Directive 2014/31/EU. Usually, these are verification class **M** scales.

KERN mobile retail scales are compact in size and therefore save space on the sales counter. Thanks to the simple menu structure they are easy to use – saving time and money. Fitted with mains or rechargeable batteries as standard, price computing scales can be used in retail shops as well as on mobile sales stalls.

All price computing scales from KERN have three displays showing you all important information at a glance:

- Weight display in kg (verifiable)
- Unit price in €/kg or €/100 g
- Total price in €

NOTE: The KERN RFE range also displays the TARE or PRE-TARE value, which enables this value to be stored in a legally binding way in accordance with the Weights and Measures Act.

All KERN retail scales have direct access keys for memories (► **PLU**), the sales item with the relevant price can be stored against these PLU. In this way, frequently used sales items can be called up at lightning speed. This accelerates customer service and reduces waiting times.

► [See the Glossary](#)

Quick-Finder Price Computing Scales

Readout	Weighing range	Model	Price excl. of VAT ex works €	Page					
[d] g	[Max] kg	KERN			For an explanation on the pictos, see the front flap				
0,5 1	1,5 3	RPB 3K3DM	265,-	79	●	●	●	●	○
0,5 1	1,5 3	RPB 3K3DHM	285,-	79	○	●	●	●	○
1 2	3 6	RIB 6K-3M	255,-	78	○	●	●	●	○
1 2	3 6	RIB 6K-3HM	305,-	78	○	●	●	●	○
1 2	3 6	RPB 6K1DM	265,-	79	○	●	●	●	○
1 2	3 6	RPB 6K1DHM	285,-	79	○	●	●	●	○
2 5	6 15	RIB 10K-3M	255,-	78	○	●	●	●	○
2 5	6 15	RIB 10K-3HM	305,-	78	○	●	●	●	○
2 5	6 15	RPB 15K2DM	265,-	79	○	●	●	●	○
2 5	6 15	RPB 15K2DHM	285,-	79	○	●	●	●	○
5 10	15 30	RIB 30K-2M	255,-	78	○	●	●	●	○
5 10	15 30	RIB 30K-2HM	305,-	78	○	●	●	●	○
5 10	15 30	RPB 30K5DM	265,-	79	○	●	●	●	○
5 10	15 30	RPB 30K5DHM	285,-	79	○	●	●	●	○

● Standard ○ Option



Robust retail scale with large item memory and user-friendly handling, verification optional



Application examples:

- Retail shops
- Weekly markets
- Farm shops
- Fruit and vegetable sales

Note: Official verification is mandatory for commercial trade

Features

- **1** KERN RIB-HM: Elevated display backlit, height of stand approx. 405 mm
- **2** KERN RIB-M: Second display on the back of the balance
- Three displays for weight display (verifiable), unit price, total price
- 10 direct price keys for frequently recurring article prices
- Memory (PLU) for 20 article prices
- Energy management: Backlight turns off after 5 sec, can be switched off
- Soil-resistant construction through water channels at the frame of the housing and sealing rings over the upper housing inlets
- Protective working cover included with delivery

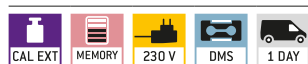
Technical data

- Large backlit LCD displays, digit height 18 mm
- Dimensions weighing surface, stainless steel, WxD 294x225 mm
- Overall dimensions WxDxH
KERN RIB-M: 325x340x115 mm
KERN RIB-HM: 325x340x405 mm
- Net weight
KERN RIB-M: approx. 3,2 kg
KERN RIB-HM: approx. 3,8 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN RIB-A01S05, **€ 52,-**
- Internal rechargeable battery pack, operating time up to 80 h without backlight, charging time approx. 14 h, KERN GAB-A04, **€ 42,-**
- **3** Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruits, vegetables, etc., overall dimensions WxDxH 400x300x45 mm, KERN RFS-A02, **€ 75,-**

STANDARD



OPTION



FACTORY



Model	Weighing capacity	Readability	Verification value	Minimal load	Price excl. of VAT ex works €	Options			
						Verification	DAkkS Calibr. Certificate		
KERN	[Max] kg	[d] g	[e] g	[Min] g		 KERN	€	DAkkS KERN	€
Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range									
RIB 6K-3M	3 6	1 2	1 2	20 40	255,-	965-228	84,-	963-128	124,-
RIB 10K-3M	6 15	2 5	2 5	40 100	255,-	965-228	84,-	963-128	124,-
RIB 30K-2M	15 30	5 10	5 10	100 200	255,-	965-228	84,-	963-128	124,-
1 with elevated display									
RIB 6K-3HM	3 6	1 2	1 2	20 40	305,-	965-228	84,-	963-128	124,-
RIB 10K-3HM	6 15	2 5	2 5	40 100	305,-	965-228	84,-	963-128	124,-
RIB 30K-2HM	15 30	5 10	5 10	100 200	305,-	965-228	84,-	963-128	124,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.

The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.



Retail scale with memories for item prices



Application examples:

- Retail shops
- Weekly markets
- Farm shops
- Fruit and vegetable sales

Note: Official verification is mandatory for commercial trade

Features

- **1** KERN RPB-HM: Elevated display backlit, revolving on column, height of stand approx. 480 mm
- **2** KERN RPB-M: Second display on the back of the balance
- Three displays for weight display (verifiable), unit price, total price
- Memory (PLU) for 10 article prices
- Unit price can be switched from €/kg to €/100 g
- Auto-clear-key: Unit price entry is automatically set to zero when scale is unloaded
- Thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- Protective working cover included with delivery

Technical data

- Large backlit LCD displays, digit height 15 mm
- Dimensions weighing surface, stainless steel, W×D 204×263 mm
- Overall dimensions W×D×H
KERN RPB-M: 283×318×110,3 mm
KERN RPB-HM: 283×375,5×486,8 mm
- Net weight
KERN RPB-M: approx. 2,8 kg
KERN RPB-HM: approx. 3,2 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN RFC-A02S05, **€ 52,-**
- Internal rechargeable battery pack, operating time up to 60 h without backlight, charging time approx. 12 h, KERN WTB-A01N, **€ 38,-**
- Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruits, vegetables, etc., overall dimensions W×D×H 400×300×45 mm, KERN RFS-A02, **€ 75,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



Model	Weighing capacity	Readability	Verification value	Minimal load	Price excl. of VAT ex works €	Options			
						Verification		DAkkS Calibr. Certificate	
KERN	[Max] kg	[d] g	[e] g	[Min] g		 KERN	€	DAkkS KERN	€
Multi-division balance, with increasing or decreasing load, it switches automatically to the next largest or smallest weighing range [Max] and readout [d].									
RPB 3K3DM	1,5 3	0,5 1	0,5 1	10	265,-	965-227	65,-	963-127	103,-
RPB 6K1DM	3 6	1 2	1 2	20	265,-	965-228	84,-	963-128	124,-
RPB 15K2DM	6 15	2 5	2 5	40	265,-	965-228	84,-	963-128	124,-
RPB 30K5DM	15 30	5 10	5 10	100	265,-	965-228	84,-	963-128	124,-
1 with elevated display									
RPB 3K3DHM	1,5 3	0,5 1	0,5 1	10	285,-	965-227	65,-	963-127	103,-
RPB 6K1DHM	3 6	1 2	1 2	20	285,-	965-228	84,-	963-128	124,-
RPB 15K2DHM	6 15	2 5	2 5	40	285,-	965-228	84,-	963-128	124,-
RPB 30K5DHM	15 30	5 10	5 10	100	285,-	965-228	84,-	963-128	124,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.

The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.



COUNTING SCALES, COUNTING SYSTEMS

Interesting Facts about Counting

Smallest part weight for piece counting

This is the smallest piece weight the scale will accept for piece counting and will display it piece by piece. In practice, depending on the required accuracy, we recommend to choose a counting scale with a minimum piece weight smaller than the weight of the item to be counted. To make it easier for you to select the right model, we specify the smallest part weight when counting under laboratory conditions and normal conditions, see the website.

► Counting resolution

Describes the maximum quantity which can be counted with a counting accuracy of 1 %, with a minimum variation of item weights and a sufficiently large ► **reference quantity** (20 pieces with counting resolution ≤ 60,000 points, 50 pieces from 60,000–150,000 points, 100 pieces ≥ 150,000 points). This therefore is an indication of the quality of the counting scale.

Recommended ► reference quantity

Weight tolerances of pieces to be counted are the most significant sources of error when counting. Therefore, at the start of every counting procedure, establish an average weight, the so-called ► **reference weight**, by placing several pieces on the balance, the so-called reference quantity. Usually this would be:

5 pieces	>> often sufficient
10 pieces	>> common practise
20–100 pieces	>> for large deviations among piece weights

The “automatic ► **reference optimisation**” function increases the reference quantity gradually, whereby the average piece weight is optimised step by step. This contributes considerably to the accuracy of the subsequent counting processes.

Which Counting Scale for Which Application?

Simple counting scale

With self-explanatory user guidance on the keyboard. The graphic control panel enables you to start working immediately, without having to consult the user manual. Easy handling, value for money.

Professional counting scale

With 3 separate displays for reference weight (average weight of the pieces), total weight of all pieces and total quantity of all pieces. Very useful integrated memories, e.g. for container weight, item number, reference weight as well as audible and visual counting aids and an alphanumeric key pad for easy data entry.

Special tip for counting large quantities: Counting systems

The weighing capacities of bench counting scales are often not sufficient to count large quantities, units, palletized items, etc. In this case, high-performing counting systems come into operation, as these combine a high-precision reference scale with a high-capacity bulk scale.

► See the Glossary

Quick-Finder Counting Scales/Counting Systems

Readability	Weighing capacity	Smallest part weight	Counting resolution	Model	Price excl. of VAT	Page	       						
[d] g	[Max] kg	(Normal) g/piece	Points	KERN	ex works €		For an explanation on the pictos, see the front flap						
0,001	0,3	0,05	60.000	CFS 300-3	510,-	86							
0,001	0,36	0,02	180.000	CKE 360-3	395,-	87							
0,001	6	0,05	1.200.000	CCS 6K-6	660,-	92							
0,001	15	0,05	3.000.000	CCS 10K-6	740,-	92							
0,01	3 6	0,2	300.000	CCA 6K-5M	1040,-	90							
0,01	3	0,5	60.000	CFS 3K-5	395,-	86							
0,01	3,6	0,2	180.000	CKE 3600-2	425,-	87							
0,01	6 15	0,2	750.000	CCA 10K-5M	1040,-	90							
0,01	15 30	0,2	1.500.000	CCA 30K-5M	1140,-	90							
0,01	30 60	0,2	3.000.000	CCA 60K-5M	1150,-	90							
0,01	30	0,5	600.000	CCS 30K0.01.	730,-	92							
0,01	60 150	0,2	7.500.000	CCA 100K-5M	1300,-	90							
0,01	60	0,5	1.200.000	CCS 60K0.01.	720,-	92							
0,01	60	0,5	1.200.000	CCS 60K0.01L.	770,-	92							
0,01	150	0,5	3.000.000	CCS 150K0.01L	1080,-	92							
0,01	150	0,5	3.000.000	CCS 150K0.01	850,-	92							
0,01	300	0,5	6.000.000	CCS 300K0.01	1170,-	92							
0,02	4	0,2	200.000	CDS 4K0.02	690,-	89							
0,02	6	0,2	300.000	CKE 6K0.02	550,-	87							
0,05	8	0,5	160.000	CKE 8K0.05	520,-	87							
0,05	15	0,5	300.000	CDS 15K0.05	640,-	89							
0,05	16	0,5	320.000	CKE 16K0.05	610,-	87							
0,1 0,2	3 6	1	60.000	IFS 6K-4S	500,-	88							
0,1 0,2	6 15	2	75.000	IFS 10K-4	550,-	88							
0,1	3 6	1	60.000	CCA 6K-4M	1000,-	90							
0,1	6 15	1	150.000	CCA 10K-4M	1000,-	90							
0,1	6	1	60.000	CPB 6K0.1N	290,-	85							
0,1	6	1	60.000	CFS 6K0.1	340,-	86							
0,1	15 30	1	300.000	CCA 30K-4M	1100,-	90							
0,1	16	1	160.000	CKE 16K0.1	530,-	87							
0,1	16	1	160.000	CDS 16K0.1	630,-	89							
0,1	30 60	1	600.000	CCA 60K-4M	1100,-	90							
0,1	30	1	300.000	CDS 30K0.1L	1150,-	89							
0,1	30	1	300.000	CCS 30K0.1.	670,-	92							
0,1	30	1	300.000	CDS 30K0.1	670,-	89							
0,1	36	1	360.000	CKE 36K0.1	570,-	87							
0,1	60 150	1	1.500.000	CCA 100K-4M	1250,-	90							
0,1	60	1	600.000	CCS 60K0.1.	730,-	92							
0,1	60	1	600.000	CCS 60K0.1L.	820,-	92							
0,1	150	1	1.500.000	CCS 150K0.1L	1095,-	92							
0,1	150	1	1.500.000	CCS 150K0.1.	760,-	92							
0,1	300	1	3.000.000	CCS 300K0.1	1110,-	92							
0,1	600	1	6.000.000	CCS 600K-1S	1840,-	92							
0,1	1500	1	15.000.000	CCS 1T-4S	1740,-	92							
0,1	1500	1	15.000.000	CCS 1T-1U	1790,-	92							
0,1	1500	1	15.000.000	CCS 1T-4	2200,-	92							
0,1	1500	1	15.000.000	CCS 1T-1L	2750,-	92							
0,1	3000	1	30.000.000	CCS 3T-3L	2540,-	92							
0,2 0,5	12 30	5	60.000	IFS 30K0.2DL	610,-	88							
0,2	3	1	30.000	CIB 3K-4	265,-	83							
0,2	3	1	30.000	CXB 3K0.2	350,-	84							
0,2	15	2	75.000	CFS 15K0.2	340,-	86							
0,2	15	2,5	60.000	CPB 15K0.2N	290,-	85							
0,2	36	2	180.000	CDS 36K0.2L	1150,-	89							
0,2	60	2	300.000	CDS 60K0.2	1150,-	89							
0,2	65	2	325.000	CKE 65K0.2	560,-	87							
0,5 1	30 60	10	60.000	IFS 60K0.5D	610,-	88							
0,5 1	30 60	10	60.000	IFS 60K0.5DL	780,-	88							
0,5	6	2	30.000	CIB 6K-4	265,-	83							
0,5	6	2	30.000	CXB 6K0.5	350,-	84							
0,5	30	5	60.000	CPB 30K0.5N	290,-	85							
0,5	30	5	60.000	CFS 30K0.5	340,-	86							
1 2	3	1	60.000	CPB 6K1DM	290,-	85							
1 2	3	1	60.000	IFS 6K-3M	475,-	88							
1 2	3	1	60.000	IFS 6K-3SM	480,-	88							
1 2	75 150	25	60.000	IFS 100K-3L	1100,-	88							
1 2	75 150	25	60.000	IFS 100K-3	860,-	88							
1	3	1	30.000	CXB 3K1NM	380,-	84							
1	15	5	30.000	CIB 10K-3	265,-	83							
1	15	5	30.000	CXB 15K1	355,-	84							
1	50	10	50.000	CFS 50K-3	395,-	86							

● Standard ○ Option

Quick-Finder Counting Scales/Counting Systems

Readability	Weighing capacity [Max] kg	Smallest part weight (Normal) g/piece	Counting resolution Points	Model	Price excl. of VAT ex works €	Page								
[d] g				KERN			For an explanation on the pictos, see the front flap							
2 5	6 15	2	75.000	IFS 10K-3M	475,-	88								
2 5	6 15	2	75.000	IFS 10K-3LM	560,-	88								
2 5	6 15	2,5	60.000	CPB 15K2DM	290,-	85								
2 5	150 300	50	60.000	IFS 300K-3	1 100,-	88								
2	6	2	30.000	CXB 6K2NM	380,-	84								
2	30	10	30.000	CIB 30K-3	265,-	83								
2	30	10	30.000	CXB 30K2	350,-	84								
5 10	15 30	5	60.000	CPB 30K5DM	290,-	85								
5 10	15 30	5	60.000	IFS 30K-3M	560,-	88								
5	15	5	30.000	CXB 15K5NM	380,-	84								
10 20	30 60	10	60.000	IFS 60K-2M	570,-	88								
10 20	30 60	10	60.000	IFS 60K-2LM	710,-	88								
10	30	10	30.000	CXB 30K10NM	380,-	84								
20 50	60 150	25	60.000	IFS 100K-2M	710,-	88								
20 50	60 150	25	60.000	IFS 100K-2LM	960,-	88								

● Standard ○ Option



Robust counting scale with large article memory, convenient operating philosophy and checkweighing display, counting resolution up to 30,000 points

Features

- Innovative counting with tolerance range (Checkweighing): The counting process can be supported visually and/or audibly and this therefore makes portion division, dispensing and grading easier
 - visual signal: the colour of the display changes depending on the counting result (not enough/ ok/too much)
 - audible signal: the frequency of the audible signal changes depending on the counting result (not enough/ok/too much)
- Ideal for workshops for people with disabilities, particularly loud or quiet environments, where operators change frequently, etc.
- Three displays for weight display, reference weight, total pieces
- The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Programmable using numerical key pad:
 - required reference quantity
 - known reference weight

- Counting results memory: adds up all individual piece counts, result is shown in total weight and total pieces
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- 20 direct price keys for frequently recurring reference weights and PRE-Tare values
- Memory for 50 reference weights and PRE-Tare values
- Thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations
- Changes from counting mode to weighing mode at the touch of a key
- Energy management: Backlight turns off after 5 sec, can be switched off
- Protective working cover included with delivery

Technical data

- Large backlit LCD displays, digit height 18 mm
- Dimensions weighing surface, stainless steel, W×D 315×215 mm
- Overall dimensions W×D×H 350×330×120 mm
- Rechargeable battery pack integrated, as standard, operating time up to 160 h without backlight, charging time approx. 14 h
- Net weight approx. 4,0 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN RIB-A01S05, € 52,-
- Internal rechargeable battery pack, operating time up to 160 h without backlight, charging time approx. 14 h, KERN GAB-A04, € 42,-

STANDARD

CAL EXT

MEMORY

PCS

SUM

TOL

ACCU

MULTI

DMS

1 DAY

OPTION

DAkKS

+3 DAYS

Model	Weighing capacity	Readability	Smallest part weight (Normal)	Counting resolution	Price excl. of VAT ex works €	Options	
						DAkKS	Certificate
	[Max] kg	[d] g	(Normal) g/piece	Points	€	KERN	€
KERN CIB 3K-4	3	0,2	1	30.000	265,-	963-127	103,-
KERN CIB 6K-4	6	0,5	2	30.000	265,-	963-128	124,-
KERN CIB 10K-3	15	1	5	30.000	265,-	963-128	124,-
KERN CIB 30K-3	30	2	10	30.000	265,-	963-128	124,-



Entry level model into professional counting, counting resolution of 30,000 points, verification optional

9

Features

- The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Programmable using numerical key pad:
 - required reference quantity
 - known reference weight
- Three displays for weight display (verifiable), reference weight, total pieces
- Fill-to-target function: Target count or target weight can be programmed. When the target weight is reached there is an audible and visual signal
- 10 memories for reference weights
- Counting results memory: adds up all individual piece counts, result is shown in total weight and total pieces
- Integrated ESD protection, which makes it ideal for weighing small plastic parts

- Energy management: Backlight turns off after 5 sec
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- Changes from counting mode to weighing mode at the touch of a key
- Protective working cover included with delivery

Technical data

- Large backlit LCD displays, digit height 18 mm
- Dimensions weighing surface, stainless steel, W×D 300×225 mm
- Overall dimensions W×D×H 300×330×110 mm
- Rechargeable battery pack integrated, as standard, operating time up to 200 h without backlight, charging time approx. 8 h
- Net weight approx. 4,0 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN CXB-A01S05, **€ 52,-**
- Internal rechargeable battery pack, operating time up to 200 h without backlight, charging time approx. 8 h, KERN GAB-A04, **€ 42,-**

Note: Official verification is mandatory for commercial trade

STANDARD



OPTION



FACTORY



CXB-NM

Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Smallest part weight (Normal) g/piece	Counting resolution Points	Price excl. of VAT ex works €	Options			
								Verification M KERN	€	DAkKS Calibr. KERN	Certificate €
KERN CXB 3K0.2	3	0,2	-	-	1	30.000	350,-	-	-	963-127	103,-
KERN CXB 6K0.5	6	0,5	-	-	2	30.000	350,-	-	-	963-128	124,-
KERN CXB 15K1	15	1	-	-	5	30.000	355,-	-	-	963-128	124,-
KERN CXB 30K2	30	2	-	-	10	30.000	350,-	-	-	963-128	124,-
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.											
KERN CXB 3K1NM	3	1	1	20	1	30.000	380,-	965-227	65,-	963-127	103,-
KERN CXB 6K2NM	6	2	2	40	2	30.000	380,-	965-228	84,-	963-128	124,-
KERN CXB 15K5NM	15	5	5	100	5	30.000	380,-	965-228	84,-	963-128	124,-
KERN CXB 30K10NM	30	10	10	200	10	30.000	380,-	965-228	84,-	963-128	124,-



Professional model, counting resolution 60,000 points, verification optional

Features

- The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Programmable using numerical key pad:
 - required reference quantity
 - known reference weight
- Three displays for weight display (verifiable), reference weight, total pieces
- Counting results memory: adds up all individual piece counts, result is shown in total weight and total pieces
- Fill-to-target function: Target count or target weight can be programmed. When the target value is reached, this will be indicated by an audible signal
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels

- Thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- Changes from counting mode to weighing mode at the touch of a key
- Protective working cover included with delivery

Technical data

- Large backlit LCD displays, digit height 20 mm
- Dimensions weighing surface, stainless steel, W×D 295×225 mm
- Overall dimensions W×D×H 315×350×100 mm
- Net weight approx. 3,2 kg
- Permissible ambient temperature 0 °C/40 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN CFS-A02S05, **€ 52,-**
- Internal rechargeable battery pack, operating time up to 90 h without backlight, charging time approx. 12 h, KERN GAB-A04, **€ 42,-**
- **■** Signal lamp for visual support of weighing with tolerance range, KERN CFS-A03, **€ 310,-**
- Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, **€ 38,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

Note: Official verification is mandatory for commercial trade

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Smallest part weight (Normal) g/piece	Counting resolution Points	Price excl. of VAT ex works €	Options			
								Verification KERN	€	DAkkS Calibr. KERN	Certificate €
KERN											
CPB 6K0.1N	6	0,1	-	-	1	60.000	290,-	-	-	963-128	124,-
CPB 15K0.2N	15	0,2	-	-	2,5	60.000	290,-	-	-	963-128	124,-
CPB 30K0.5N	30	0,5	-	-	5	60.000	290,-	-	-	963-128	124,-
Multi-division balance, with increasing or decreasing load, it switches automatically to the next largest or smallest weighing range [Max] and readout [d].											
CPB 6K1DM	3 6	1 2	1 2	20	1	60.000	290,-	965-228	84,-	963-128	124,-
CPB 15K2DM	6 15	2 5	2 5	40	2,5	60.000	290,-	965-228	84,-	963-128	124,-
CPB 30K5DM	15 30	5 10	5 10	100	5	60.000	290,-	965-228	84,-	963-128	124,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.



Professional, high-resolution counting scale with 100 item memories and second balance interface, counting resolution up to 75,000 points

9

Features

- Memory (PLU) for 100 items with additional text, reference weight and tare weight, e.g. of a container
- The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Programmable using numerical key pad:
 - required reference quantity
 - known reference weight
- Three displays for weight display, reference weight, total pieces
- Weighing with tolerance range: a visual and audible signal helps with portioning, dispensing or grading
- Fill-to-target function: Programmable target quantity or target weight e.g. for checkweighing. A signal will be displayed when the target value is reached
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels

- Second balance interface to construct a high-resolution counting system, standard, e.g. with weighing bridges of KERN KFP V20
- Draught shield standard for models with weighing plate size **A**, weighing space W×D×H 155×141×80 mm
- Protective working cover included with delivery, for models with weighing plate size **A**, **B**

Technical data

- Large backlit LCD displays, digit height 20 mm
- Dimensions weighing surface
 - A** ø 80 mm
 - B** W×D 295×225 mm, see larger picture
 - C** W×D 370×240 mm
- Overall dimensions W×D×H
 - A** 315×350×110 mm/315×350×185 mm (incl. draught shield)
 - B** 315×350×100 mm
 - C** 370×360×100 mm
- Permissible ambient temperature 0 °C/40 °C

Accessories

- **A**, **B**: Protective working cover, scope of delivery 5 items, KERN CFS-A02S05, **€ 52,-**
- Internal rechargeable battery pack, operating time up to 70 h without backlight, charging time approx. 14 h, KERN GAB-A04, **€ 42,-**
- Signal lamp for visual support of weighing with tolerance range, KERN CFS-A03, **€ 310,-**
- Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, **€ 38,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Smallest part weight (Normal) g/piece	Counting resolution Points	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options	
								DAkKS KERN	Calibr. Certificate €
KERN									
CFS 300-3	0,3	0,001	0,05	60.000	2,6	A	510,-	963-127	103,-
CFS 3K-5	3	0,01	0,5	60.000	3,4	B	395,-	963-127	103,-
CFS 6K0.1	6	0,1	1	60.000	3,2	B	340,-	963-128	124,-
CFS 15K0.2	15	0,2	2	75.000	3,4	B	340,-	963-128	124,-
CFS 30K0.5	30	0,5	5	60.000	3,4	B	340,-	963-128	124,-
CFS 50K-3	50	1	10	50.000	4,4	C	395,-	963-128	124,-



Technical data

- Large backlit LCD display, digit height 25 mm
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 20 h
- Dimensions weighing surface
 - A** Ø 82 mm, plastic
 - B** W×D 130×130 mm, plastic, see larger picture
 - C** W×D 340×240 mm, stainless steel
- Overall dimensions W×D×H
 - A** 163×245×65 mm/163×245×123 mm (incl. draught shield)
 - B** 163×245×65 mm
 - C** 350×390×120 mm
- Permissible ambient temperature -10 °C/40 °C

Accessories

- **A, B** Protective working cover, scope of delivery 5 items, KERN YBA-A12S05, **€ 52,-**
- **C** Protective working cover, scope of delivery 5 items, KERN FKB-A02S05, **€ 52,-**
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, **€ 35,-**
- External data interface RS-232, interface cable included, KERN KUP-01, **€ 60,-**
- External data interface USB, interface cable included, KERN KUP-03, **€ 75,-**
- WiFi interface adapter, KERN KUP-05, **€ 75,-**
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13, **€ 75,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

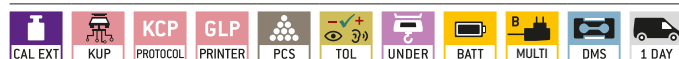
Easy to use, self-explanatory counting scale with laboratory accuracy, ideal for the various possibilities of Industry 4.0 applications, counting resolution up to 360.000 points

Features

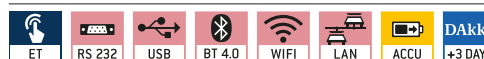
- Self-explanatory, graphic control panel
 - no learning time = reduces costs
 - ideal for untrained users
 - visualised process avoids operating errors
- The 4 steps are carried out from left to right:
 - 1** Place the empty container onto the weighing plate and tare by pressing the TARE key
 - 2** Place the reference quantity for the goods to be counted into the container (5, 10, 20 or any number of pieces)
 - 3** Confirm the selected reference quantity by pressing the key (5, 10, 20 or any number of pieces)
 - 4** Pour in the goods to be counted. The number of pieces will immediately be shown in the display

- The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- Changes from counting mode to weighing mode at the touch of a key
- Ring-shaped draught shield standard, only for models with weighing plate size **A**, weighing space Ø×H 90×40 mm
- Protective working cover included with delivery

STANDARD



OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Smallest part weight (Normal) g/piece	Counting resolution Points	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options	
								DAkKS	Calibr. Certificate
KERN								DAkKS KERN	€
CKE 360-3	0,36	0,001	0,02	180.000	0,85	A	395,-	963-127	103,-
CKE 3600-2	3,6	0,01	0,2	180.000	1,6	B	425,-	963-127	103,-
CKE 6K0.02	6	0,02	0,2	300.000	7	C	550,-	963-128	124,-
CKE 8K0.05	8	0,05	0,5	160.000	7	C	520,-	963-128	124,-
CKE 16K0.05	16	0,05	0,5	320.000	7	C	610,-	963-128	124,-
CKE 16K0.1	16	0,1	1	160.000	7	C	530,-	963-128	124,-
CKE 36K0.1	36	0,1	1	360.000	7	C	570,-	963-128	124,-
CKE 65K0.2	65	0,2	2	325.000	7	C	560,-	963-129	153,-



Industrial counting scale with convenient decimal keypad and high counting resolution, verification optional

Features

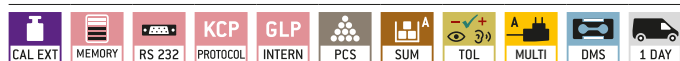
- Display device with large keypad and high-contrast LCD display for easy entry and reading of, e.g., tare weights, reference weights, limit values etc.
- Three displays for weight display (verifiable), reference weight, total pieces
- 100 item memories for master data such as reference weight, reference quantity, container weight (PRE-TARE) etc.
- The manual reference weight optimisation gradually improves the average value of the piece weight

- Totalising of pieces when counting
- Printout with date and time
- Protective working cover over the display device included with the delivery

Technical data

- Large backlit LCD displays, digit height 16,5 mm
- Weighing platform dimensions W×D×H, stainless steel
 - A** 230×230×110 mm **B** 300×240×110 mm
 - C** 400×300×120 mm **D** 500×400×120 mm
 - E** 650×500×140 mm

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Smallest part weight (Normal) g/piece	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
									Verification		DAkkS Calibr. Certificate	
									 KERN €	€	DAkkS KERN	€
Multi-division balance, with increasing or decreasing load, it switches automatically to the next largest or smallest weighing range [Max] and readout [d]. (Remaining stock contains multi-range scales)												
IFS 6K-4S	3 6	0,1 0,2	-	-	1	3,8		500,-	-	-	963-128	124,-
IFS 10K-4	6 15	0,1 0,2	-	-	2	6		550,-	-	-	963-128	124,-
IFS 30K0.2DL	12 30	0,2 0,5	-	-	5	7		610,-	-	-	963-128	124,-
IFS 60K0.5D	30 60	0,5 1	-	-	10	7		610,-	-	-	963-129	153,-
IFS 60K0.5DL	30 60	0,5 1	-	-	10	12		780,-	-	-	963-129	153,-
IFS 100K-3	75 150	1 2	-	-	25	12		860,-	-	-	963-129	153,-
IFS 100K-3L	75 150	1 2	-	-	25	20		1100,-	-	-	963-129	153,-
IFS 300K-3	150 300	2 5	-	-	50	22		1100,-	-	-	963-129	153,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.
The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

IFS 6K-3SM	3 6	1 2	1 2	20 40	1	3,8	A	480,-	965-228	84,-	963-128	124,-
IFS 6K-3M	3 6	1 2	1 2	20 40	1	5,0	B	475,-	965-228	84,-	963-128	124,-
IFS 10K-3M	6 15	2 5	2 5	40 100	2	4,8	B	475,-	965-228	84,-	963-128	124,-
IFS 10K-3LM	6 15	2 5	2 5	40 100	2	7	C	560,-	965-228	84,-	963-128	124,-
IFS 30K-3M	15 30	5 10	5 10	100 200	5	7	C	560,-	965-228	84,-	963-128	124,-
IFS 60K-2M	30 60	10 20	10 20	200 400	10	7	C	570,-	965-229	110,-	963-129	153,-
IFS 60K-2LM	30 60	10 20	10 20	200 400	10	13	D	710,-	965-229	110,-	963-129	153,-
IFS 100K-2M	60 150	20 50	20 50	400 1000	25	12	D	710,-	965-229	110,-	963-129	153,-
IFS 100K-2LM	60 150	20 50	20 50	400 1000	25	22	E	960,-	965-229	110,-	963-129	153,-



- Dimensions of display device
W×D×H 260×150×65 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover over the display device, scope of delivery 5 items, KERN KFB-A02S05, **€ 52,-**
- Stand to elevate display device
 - 1 A - E** Height of stand approx. 330 mm, KERN IFB-A01, **€ 68,-**
 - D, E** Height of stand approx. 600 mm, KERN IFB-A02, **€ 81,-**
- Internal rechargeable battery pack, operating time up to 18 h without backlight, charging time approx. 12 h, must be ordered at purchase, KERN KFB-A01, **€ 40,-**
- **2** ESD drain to protect against electrostatic discharge e.g. for electrostatically-charged weighing objects or people who work with the scale, KERN YGR-01, **€ 60,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*



Easy to use industrial counting scale for heavy loads, counting resolution up to 300,000 points, ideal for the diverse possibilities of Industry 4.0 applications

Features

- Self-explanatory, graphic control panel
 - no learning time = reduces costs
 - ideal for untrained users
 - visualised process avoids operating errors
- The 4 steps are carried out from left to right:
 - Place the empty container onto the weighing plate and tare by pressing the TARE key
 - Place the reference quantity for the goods to be counted into the container (5, 10 or 20 pieces)
 - Confirm the selected reference quantity by pressing the key (5, 10 or 20)
 - Pour in the goods to be counted. The number of pieces will immediately be shown in the display
- The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- KERN Universal Port (KUP): permits the connection of an external KUP interface adapter,

- such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
 - Standardised, simplified concept of operation
 - Protective working cover over the display device included with the delivery

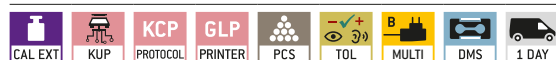
Technical data

- Backlit LCD display, digit height 21 mm
- Weighing platform dimensions, stainless steel
 - A** W×D×H 230×230×103 mm
 - B** W×D×H 308×318×75 mm, see larger picture
 - C** W×D×H 500×400×125 mm
- Dimensions of display device W×D×H 225×115×60 mm
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover over the display device, scope of delivery 5 items, KERN DE-A12S05, **€ 44,-**
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, **€ 35,-**
- Suitable for models with weighing plate size
 - B**: Mount to fasten the display device to the platform, KERN DE-A11N, **€ 40,-**
 - 5**: Stand to elevate display device
 - B**: Height of stand approx. 480 mm, KERN DE-A10, **€ 128,-**
 - C**: Height of stand approx. 600 mm, KERN DS-A03, **€ 140,-**
 - 6**: Set for underfloor weighing, consists of platform, bow, hook, only for models with weighing plate **B**, KERN DS-A01, **€ 230,-**
- External data interface RS-232, interface cable included, KERN KUP-01, **€ 60,-**
- External data interface USB, interface cable included, KERN KUP-03, **€ 75,-**
- Ethernet interface adapter, KERN KUP-04, **€ 115,-**
- WiFi interface adapter, KERN KUP-05, **€ 75,-**
- Bluetooth interface adapter, KERN KUP-06, **€ 99,-**
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13, **€ 75,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Smallest part weight (Normal) g/piece	Counting resolution Points	Net weight approx. kg	Cable length approx. m	Weighing plate	Price excl. of VAT ex works €	Options	
									DAkKS Calibr. Certificate	
KERN									DAkKS KERN	€
CDS 4K0.02	4	0,02	0,2	200.000	8	2,5	A	690,-	963-127	103,-
CDS 15K0.05	15	0,05	0,5	300.000	8	2,5	B	640,-	963-128	124,-
CDS 16K0.1	16	0,1	1	160.000	8	2,5	B	630,-	963-128	124,-
CDS 30K0.1	30	0,1	1	300.000	8	2,5	B	670,-	963-128	124,-
CDS 30K0.1L	30	0,1	1	300.000	19	2,5	C	1150,-	963-128	124,-
CDS 36K0.2L	36	0,2	2	180.000	19	2,5	C	1150,-	963-128	124,-
CDS 60K0.2	60	0,2	2	300.000	19	2,5	C	1150,-	963-129	153,-



9

High-resolution counting system to count the smallest parts in large quantities, maximum number of parts which can be displayed is 999,999, verification optional

Features

- The highly accurate KERN CCA counting system can replace a whole range of individual balances, efficiently and at a reasonable price
- Thanks to optional verification, it is also suitable for use in verified applications
- The balances are connected to one another with an RS-232 Y-cable, which also allows you to connect a printer

Reference scale KERN EWJ

- This precision balance, which can be used as an individual balance, also fulfils the highest demands through connection with a high-capacity platform
- Automatic internal adjustment, time-controlled every 2 h, guarantees high degree of accuracy and makes the balance independent of its location
- Draught shield standard for models with [Max] = 600 g, weighing space W×D×H 134×128×80 mm
- Protective working cover included with delivery

Quantity scale KERN IFS

- The high-accuracy quantity counting takes place on the weighing platform IFS. In this way even the smallest of parts can be counted in large volumes
- Tough industry standard suitable for use in harsh industrial applications
- Display device with large keypad and high-contrast LCD display for easy entry and reading of, e.g., tare weights, reference weights, limit values etc.
- Three displays for weight display, reference weight, total pieces
- 100 item memories for master data such as reference weight, reference quantity, container weight (PRE-TARE) etc.
- The manual reference weight optimisation gradually improves the average value of the piece weight
- Totalising of pieces when counting
- Printout with date and time
- Aluminium singlepoint load cell (1×3000 e), protection against dust and water splashes IP65
- Protective working cover over the display device included with the delivery



Technical data

Reference scale KERN EWJ

- Dimensions weighing surface, stainless steel
[Max] 600 g: $\varnothing$ 120 mm
1 [Max] 6000 g: W×D 155×145 mm
- Overall dimensions W×D×H
[Max] 600 g: 220×340×180 mm (incl. draught shield)
[Max] 6000 g: 220×340×105 mm
- Net weight
[Max] 600 g: approx. 3,2 kg
[Max] 6000 g: approx. 3,4 kg

Quantity scale KERN IFS

- Weighing platform dimensions, stainless steel
A W×D×H 300×240×105 mm
B W×D×H 400×300×114 mm
C W×D×H 500×400×140 mm
- Cable length of display device approx. 3 m

Counting System KERN CCA

- Connection cable approx. 1,5 m
- Net weight
A approx. 9 kg
B approx. 14 kg
C approx. 16 kg

Accessories

Reference scale KERN EWJ

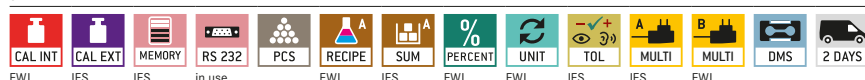
- Protective working cover, scope of delivery 5 items, KERN EWJ-A04S05, € 52,-
- Internal rechargeable battery pack, operating time up to 57 h without backlight, charging time approx. 6,5 h, KERN KFB-A01, € 40,-

Quantity scale KERN IFS

- Protective working cover over the display device, scope of delivery 5 items, KERN KFB-A02S05, € 52,-
- Internal rechargeable battery pack, operating time up to 18 h without backlight, charging time approx. 12 h, KERN KFB-A01, € 40,-
- 2 Stand to elevate display device
Height of stand approx. 330 mm, KERN IFB-A01, € 68,-
For models with weighing plate size A, B:
Height of stand approx. 600 mm, KERN IFB-A02, € 81,-
- 3 ESD drain to protect against electrostatic discharge e.g. for electrostatically-charged weighing objects or people who work with the scale, KERN YGR-01, € 60,-
- Further details, plenty of further accessories and suitable printers see Accessories

Note: Official verification is mandatory for commercial trade

STANDARD



OPTION



FACTORY



Model	Quantity scale			Reference scale		Smallest part weight (Normal) g/piece	Price excl. of VAT ex works €	Options		
	Weighing range [Max] kg	Readability [d] g	Weighing plate	Weighing range [Max] g	Readability [d] g			Verification	DAkkS Calibr.	Certificate
KERN								KERN	€	DAKKS KERN
CCA 6K-5M	3 6	1 2	A	600	0,01	0,2	1040,-	965-228-216	145,-	962-128-127
CCA 6K-4M	3 6	1 2	A	6000	0,1	1	1000,-	965-229-216	190,-	962-129-127
CCA 10K-5M	6 15	2 5	A	600	0,01	0,2	1040,-	965-228-216	145,-	962-128-127
CCA 10K-4M	6 15	2 5	A	6000	0,1	1	1000,-	965-229-216	190,-	962-129-127
CCA 30K-5M	15 30	5 10	B	600	0,01	0,2	1140,-	965-228-216	145,-	962-128-127
CCA 30K-4M	15 30	5 10	B	6000	0,1	1	1100,-	965-229-216	190,-	962-129-127
CCA 60K-5M	30 60	10 20	B	600	0,01	0,2	1150,-	965-229-216	190,-	962-129-127
CCA 60K-4M	30 60	10 20	B	6000	0,1	1	1100,-	965-229-216	190,-	962-129-127
CCA 100K-5M	60 150	20 50	C	600	0,01	0,2	1300,-	965-229-216	190,-	962-129-127
CCA 100K-4M	60 150	20 50	C	6000	0,1	1	1250,-	965-229-216	190,-	962-129-127

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.
The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.



9

Counting system to count the smallest parts in large quantities, maximum number of parts which can be displayed is 999,999

Features

- The highly accurate KERN CCS counting system can replace a whole range of individual balances, efficiently and at a reasonable price

Reference scale KERN CFS

- This professional counting scale, which can also be used as a stand-alone scale, meets the highest demands for accuracy, weighing capacity and volume of items, by being connected to a high-capacity weighing bridge
- Programmable using numerical key pad:
 - required reference quantity
 - known reference weight
- Three displays for weight display, reference weight, total pieces
- Memory (PLU) for 100 items with additional text, reference weight and tare weight, e.g. of a container
- Fill-to-target function: Target count or target weight can be programmed. When the target weight is reached there is an audible and visual signal

- The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Draught shield standard for models with [d] = 0,001 g, weighing space W×D×H 155×141×80 mm
- Protective working cover included with delivery

Quantity scale

KERN KFP/KERN KFU/KERN KIP

- The high-accuracy quantity counting takes place on the weighing platform (= weighing bridge). In this way even the smallest of parts can be counted in large volumes

Platform KERN KFP-V20 IP65

- Weighing plate stainless steel, painted steel base
- Aluminium singlepoint load cell, protection against dust and water splashes IP65
- Models with weighing plate size **A** - **E**

Weighing bridge KERN KIP-V20M IP67

- Lacquered steel weighing bridge, corrugated steel plate. Extremely resistant to bending due to material thickness
- 4 load cells, alloy steel, silicone-coated, IP67
- Models with weighing plate size **F**, **G**, **H**

Weighing bridge KERN KFP-V20 IP67

- Weighing bridge painted steel, weighing plate screwed on from the top
- 4 load cells, alloy steel, silicone-coated, IP67
- Models with weighing plate size **I**

U-shaped weighing bridge KERN KFU-V20

- Load range: painted steel
- 4 load cells, alloy steel, silicone-coated, IP67
- Models with weighing plate size **J**



1



F



2



E



J



2

Technical data

Reference scale KERN CFS

- Dimensions weighing surface, stainless steel
 - 1 [d] = 0,001 g: $\varnothing$ 80 mm
 - [d] $\geq$ 0,01 g: W×D 295×225 mm
- Overall dimensions W×D×H 315×350×100 mm
- Net weight
 - 1 [d] = 0,001 g: approx. 2,6 kg
 - [d] $\geq$ 0,01 g: approx. 3,4 kg

Quantity platforms, KERN KFP-V20 IP65

- Weighing platform dimensions, stainless steel
 - A W×D×H 230×230×103 mm
 - B W×D×H 300×240×105 mm
 - C W×D×H 400×300×114 mm
 - D W×D×H 500×400×124 mm
 - E W×D×H 650×500×136 mm

Quantity platforms, KERN KIP-V20M

- Weighing platform dimensions, coated metal
 - F W×D×H 1000×1000×108 mm
 - G W×D×H 1200×1500×108 mm
 - H W×D×H 1500×1500×108 mm

Bulk weighing bridges, KERN KFP-V20 IP67

- Weighing platform dimensions, coated metal
 - 1 W×D×H 1500×1250×80 mm

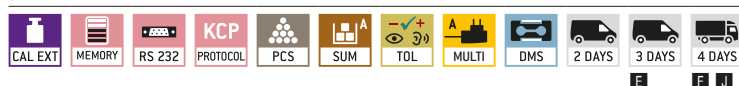
Bulk pallet load handling, KERN KFU-V20

- Weighing platform dimensions, coated metal
 - J W×D×H 840×1190×90 mm
- Connection cable approx.
 - A - E 3 m
 - F - J 5 m

Accessories

- Protective working cover, scope of delivery 5 items, KERN CFS-A02S05, € 52,-
- 2 Suitable for models with weighing plate size A-E: ESD drain to protect against electrostatic discharge e.g. for electrostatically-charged weighing objects or people who work with the scale, KERN YGR-01, € 60,-
- Internal rechargeable battery pack, operating time up to 70 h without backlight, charging time approx. 14 h, KERN GAB-A04, € 42,-
- Signal lamp for visual support of weighing with tolerance range, KERN CFS-A03, € 310,-
- Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, € 38,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model	Quantity scale		Weighing plate	Reference scale		Counting resolution	Smallest part weight (Normal) g/piece	Price excl. of VAT ex works €	Options	
	Weighing range [Max] kg	Readability [d] g		Weighing range [Max] g	Readability [d] g				DAKKS	Certificate
KERN						Points			KERN	€
CCS 6K-6	6	0,2	A	300	0,001	1.200.000	0,05	660,-	962-128-127	225,-
CCS 10K-6	15	0,5	B	300	0,001	3.000.000	0,05	740,-	962-128-127	225,-
CCS 30K0.01.	30	1	C	3000	0,01	600.000	0,5	730,-	962-128-127	225,-
CCS 30K0.1.	30	1	C	6000	0,1	300.000	1	670,-	962-128-128	240,-
CCS 60K0.01.	60	2	C	3000	0,01	1.200.000	0,5	720,-	962-129-127	245,-
CCS 60K0.01L.	60	2	D	3000	0,01	1.200.000	0,5	770,-	962-129-127	245,-
CCS 60K0.1.	60	2	C	6000	0,1	600.000	1	730,-	962-129-128	275,-
CCS 60K0.1L.	60	2	D	6000	0,1	600.000	1	820,-	962-129-128	275,-
CCS 150K0.01	150	5	D	3000	0,01	3.000.000	0,5	850,-	962-129-127	245,-
CCS 150K0.01L	150	5	E	3000	0,01	3.000.000	0,5	1080,-	962-129-127	245,-
CCS 150K0.1.	150	5	D	6000	0,1	1.500.000	1	760,-	962-129-128	275,-
CCS 150K0.1L	150	5	E	6000	0,1	1.500.000	1	1095,-	962-129-128	275,-
CCS 300K0.1*	300	10	E	6000	0,1	3.000.000	1	1110,-	962-129-128	275,-
CCS 300K0.01*	300	10	E	3000	0,01	6.000.000	0,5	1170,-	962-129-127	245,-
CCS 600K-1S*	600	200	F	6000	0,1	6.000.000	1	1840,-	962-130-127	320,-
CCS 1T-4S*	1500	500	F	6000	0,1	15.000.000	1	1740,-	962-130-128	335,-
CCS 1T-4*	1500	500	G	6000	0,1	15.000.000	1	2200,-	962-130-128	335,-
CCS 1T-1L*	1500	500	H	6000	0,1	15.000.000	1	2750,-	962-130-128	335,-
CCS 1T-1U*	1500	500	J	6000	0,1	15.000.000	1	1790,-	962-130-128	335,-
CCS 3T-3L*	3000	1000	I	6000	0,1	30.000.000	1	2540,-	962-132-128	680,-

I * ONLY WHILE STOCKS LAST



VERSATILE PRODUCTS

You will always find the right model for your application in our wide range of platform scales.

The unbeatable benefits of platform scales:

- Weighing range from 3 kg - 600 kg
- Robust platform construction for the harshest industrial use
- Versatile, available with column
- High degree of overload protection
- Stainless steel weighing plate, shock proof and easy to clean
- Large selection of platform sizes
- Display device can be positioned separately, e.g. wall-mounted, on a column or next to the platform. Clear view for the user of the display even with bulky items on the scale.

→ Top Tip:

If you can't find what you are looking for in our standard range, then we can offer you our CUSOS service: Perfect weighing solutions with personalised platform sizes, specific software solutions and adapted peripheral devices.

For further information on this, see page 142/143.

KERN platform scales – as versatile as your areas of use

- Entry-level models – portable, economical and well-made – e.g. for weighing post and packages
- High-quality models – with high IP rating and with EC type approval for commercial trade
- Top models – as a user-friendly solution for a wide range of recipe weighing or check-weighing applications with relay control and much more

Tip: With KERN EasyTouch you can expand the range of possible applications for efficient balances even further.

True allrounders – suitable for entry-level users and industrial professionals

In order to fulfil the diverse requirements of our industrial customers, KERN platform scales have a large number of practical features, such as, for example, counting and totalising functions, data interfaces (RS 232, RS 485, USB, Bluetooth, WLAN, Ethernet, analogue module), options for integration into networks, PC or printer connections, rechargeable battery/battery operation for mobile use and much more. KERN platform scales – just true allrounders!

Note: The “Hold function” is particularly useful for industrial weighing and guarantees stable weights even when the ambient conditions is unstable.

The very best in user-friendliness

With KERN EasyTouch on the display device (PC, laptop, tablet, smartphone), the display can be connected wirelessly via Bluetooth or WiFi. This means it is possible to weigh directly at the location of use and read the results from a distance of up to 20 metres.



You can find a large selection of platform scales and practical accessories, such as, for example, columns etc. in *Accessories* or on the internet.

10



PARCEL SCALES, PLATFORM SCALES

Whether in the warehouse, production or dispatch, our parcel and platform scales offer the perfect solution for precise and reliable weighing. With a robust design and straightforward handling, they make light work of all weighing tasks, from small parcels to heavy loads. Benefit from the sturdy construction and long-lasting reliability of our products.

Discover our selection now and find the perfect balance for your requirements!



Digital weighing data – with KERN EasyTouch

Discover KERN EasyTouch - innovative software, which combines the precision of our tried and tested KERN balances with the versatility of Windows or Android environments.

This is how KERN EasyTouch works:

1. Collection of weighing and measuring data using an appropriate measuring device
2. Transfer, saving and processing in relation to master data such as item data, order data, batch data and user data
3. Output or transfer of data to connected systems or peripheral devices

Tip: Turn your balance into a powerful weighing system!

Using the KERN EasyTouch App even a simple single balance can be made into a powerful weighing system, which offers a range of functions. To do this you simply have to install the KERN EasyTouch App on your PC or tablet (Windows® or Android™), connect the balance (either with cable or wireless), activate the App and you will be able to control your balance using your PC or tablet straightaway (see page 136).



Quick-Finder Parcel Scales/Platform Scales

Readability	Weighing capacity [Max]	Weighing plate W×D×H mm	Model	Price excl. of VAT ex works €	Page	         									
[d] g	kg		KERN			For an explanation on the pictos, see the front flap									
0,01	3	230×230×103	DS 3K0.01S	710,-	111	●	●	○		●	●			○	
0,05	5	230×230×103	DS 5K0.05S	640,-	111	●	●	○		●	●			○	
0,05	8	308×318×75	DS 8K0.05	640,-	111	●	●	○		●	●			○	
0,1 0,2	3 6	300×300×110	IOC 6K-4	390,-	106	●		●	○	●	●	●		○	
0,1	3	230×230×106	IFB 3K-4	455,-	110	●		●		●	●	●		○	
0,1	3	230×230×106	IFC 3K-4	435,-	108	●	●	○	○	●	●	●	●	○	
0,1	10	230×230×103	DS 10K0.1S	640,-	111	●	●	○		●	●			○	
0,1	16	308×318×75	DS 16K0.1	630,-	111	●	●	○		●	●			○	
0,1	20	308×318×75	DS 20K0.1	640,-	111	●	●	○		●	●			○	
0,1	30	308×318×75	DS 30K0.1	720,-	111	●	●	○		●	●			○	
0,1	30	500×400×125	DS 30K0.1L	1150,-	111	●	●	○		●	●			○	
0,2 0,5	6 15	300×240×110	IOC 10K-4	380,-	106	●		●	○	●	●	●		○	
0,2 0,5	6 15	300×300×110	EOC 10K-4	330,-	104	●		●		●	●	●		○	
0,2 0,5	6 15	318×308×88	DE 15K0.2D	365,-	102	●		●		●	●	●	●	○	
0,2 0,5	6 15	400×300×110	IOC 10K-4L	420,-	106	●		●	○	●	●	●		○	
0,2	6	230×230×106	IFB 6K-4S	390,-	110	●		●		●	●	●		○	
0,2	6	230×230×106	IFC 6K-4S	435,-	108	●	●	○	○	●	●	●	●	○	
0,2	6	300×240×109	IFB 6K-4	400,-	110	●		●		●	●	●		○	
0,2	6	300×240×109	IFC 6K-4	450,-	108	●	●	○	○	●	●	●	●	○	
0,2	6	300×240×109	IXC 6K-4	660,-	112	●		○	○	●	●	●		○	
0,2	36	308×318×75	DS 36K0.2	650,-	111	●	●	○		●	●			○	
0,2	36	500×400×125	DS 36K0.2L	1070,-	111	●	●	○		●	●			○	
0,2	60	500×400×125	DS 60K0.2	1150,-	111	●	●	○		●	●			○	
0,5 1	15 30	400×300×110	IOC 30K-4	420,-	106	●		●	○	●	●	●		○	
0,5 1	15 35	300×300×110	EOC 30K-4S	330,-	104	●		●		●	●	●		○	
0,5 1	15 35	318×308×88	DE 35K0.5D	360,-	102	●		●		●	●	●	●	○	
0,5 1	15 35	500×400×120	EOC 30K-4	390,-	104	●		●		●	●	●		○	
0,5	6	300×300×110	EOC 6K-4A	330,-	104	●		●		●	●	●		○	
0,5	6	318×308×75	DE 6K0.5A	235,-	102	●		●		●	●	●	●	○	
0,5	15	300×240×109	IFB 10K-4	415,-	110	●		●		●	●	●		○	
0,5	15	300×240×109	IFC 10K-4	470,-	108	●	●	○	○	●	●	●	●	○	
0,5	15	300×240×109	IXC 10K-4	680,-	112	●		○	○	●	●	●		○	
0,5	15	400×300×117	IFC 10K-4L	520,-	108	●	●	○	○	●	●	●		○	
0,5	15	400×300×117	IXC 10K-4L	740,-	112	●		○	○	●	●	●	●	○	
0,5	65	500×400×125	DS 65K0.5	1080,-	111	●	●	○		●	●			○	
0,5	100	500×400×125	DS 100K0.5	1140,-	111	●	●	○		●	●			○	
1 2	3 6	230×230×106	IFB 6K-3SM	390,-	110	○	●	●		●	●	●		○	
1 2	3 6	230×230×106	IFC 6K1DSM	435,-	108	●	●	○		●	●	●		○	
1 2	3 6	300×240×109	IFC 6K1DM	440,-	108	●	●	○		●	●	●		○	
1 2	3 6	300×240×109	IXC 6K-3M	660,-	112	○	●	○	○	●	●	●		○	
1 2	3 6	300×300×110	EOC 6K-3	315,-	104	●		●		●	●	●		○	
1 2	3 6	300×300×110	IOC 6K-3M	390,-	106	○	●	●	○	●	●	●		○	
1 2	3 6	318×308×75	DE 6K1D	205,-	102	●		●		●	●	●	●	○	
1 2	30 60	300×300×110	EOC 60K-3	330,-	104	●		●		●	●	●		○	
1 2	30 60	318×308×88	DE 60K1D	360,-	102	●		●		●	●	●	●	○	
1 2	30 60	400×300×110	IOC 60K-3	430,-	106	●		●	○	●	●	●		○	
1 2	30 60	500×400×120	EOC 60K-3L	400,-	104	●		●		●	●	●		○	
1 2	30 60	500×400×120	IOC 60K-3L	510,-	106	●		●	○	●	●	●		○	
1 2	30 60	522×406×98	DE 60K1DL	480,-	102	●		●		●	●	●	●	○	
1	12	300×300×110	EOC 10K-3A	330,-	104	●		●		●	●	●		○	
1	12	318×308×75	DE 12K1A	230,-	102	●		●		●	●	●	●	○	
1	30	400×300×117	IFC 30K-3	540,-	108	●	●	○	○	●	●	●		○	
1	30	400×300×117	IXC 30K-3	720,-	112	●		○	○	●	●	●		○	
1	30	500×400×127	IXC 30K-3L	860,-	112	●		○	○	●	●	●		○	
1	150	500×400×125	DS 150K1	1140,-	111	●	●	○		●	●			○	
2 5	6 12	300×300×110	EOC 10K-3	320,-	104	●		●		●	●	●		○	
2 5	6 15	300×240×109	IFC 15K2DM	500,-	108	●	●	○		●	●	●		○	
2 5	6 15	300×240×109	IXC 10K-3M	680,-	112	○	●	○	○	●	●	●		○	
2 5	6 15	300×240×110	IOC 10K-3M	360,-	106	○	●	●	○	●	●	●		○	
2 5	6 15	318×308×75	DE 15K2D	205,-	102	●		●		●	●	●	●	○	
2 5	6 15	400×300×110	IOC 10K-3LM	405,-	106	○	●	●	○	●	●	●		○	
2 5	6 15	400×300×117	IFC 15K2DLM	550,-	108	●	●	○		●	●	●	●	○	
2 5	6 15	400×300×117	IXC 10K-3LM	740,-	112	○	●	○	○	●	●	●		○	
2 5	60 150	300×300×110	EOC 100K-3	335,-	104	●		●		●	●	●		○	
2 5	60 150	318×308×88	DE 150K2D	365,-	102	●		●		●	●	●	●	○	
2 5	60 150	500×400×120	EOC 100K-3L	430,-	104	●		●		●	●	●		○	
2 5	60 150	500×400×120	IOC 100K-3	520,-	106	●		●	○	●	●	●		○	
2 5	60 150	522×406×98	DE 150K2DL	490,-	102	●		●		●	●	●	●	○	
2 5	60 150	650×500×150	IOC 100K-3L	700,-	106	●		●	○	●	●	●		○	
2	6	300×240×109	SFE 6K-3NM	490,-	114	○	●				●			○	
2	24	300×300×110	EOC 20K-3A	330,-	104	●		●		●	●	●		○	

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● Standard ○ Option

Quick-Finder Parcel Scales/Platform Scales

Readability	Weighing capacity	Weighing plate	Model	Price excl. of VAT	Page	         									
[d] g	[Max] kg	W×D×H mm	KERN	€		For an explanation on the pictos, see the front flap									
2	24	318×308×75	DE 24K2A	240,-	102										
2	60	400×300×117	IFC 60K-3	550,-	108										
2	60	400×300×117	IXC 60K-3	780,-	112										
2	60	500×400×127	IFB 60K-3L	650,-	110										
2	60	500×400×127	IFC 60K-3L	730,-	108										
2	60	500×400×127	IXC 60K-3L	870,-	112										
5 10	15 30	400×300×110	IOC 30K-3M	410,-	106										
5 10	15 30	400×300×117	IFB 30K5DM	520,-	110										
5 10	15 30	400×300×117	IFC 30K5DM	540,-	108										
5 10	15 30	400×300×117	IXC 30K-3M	720,-	112										
5 10	15 30	500×400×127	IXC 30K-3LM	860,-	112										
5 10	15 35	300×300×110	EOC 30K-3	330,-	104										
5 10	15 35	318×308×75	DE 35K5D	210,-	102										
5 10	15 35	500×400×120	EOC 30K-3L	390,-	104										
5 10	15 35	522×403×83	DE 35K5DL	350,-	102										
5 10	150 300	500×400×120	EOC 300K-3	400,-	104										
5 10	150 300	522×406×98	DE 300K5DL	490,-	102										
5 10	150 300	650×500×150	IOC 300K-3	720,-	106										
5	15	300×240×109	SFE 10K-3NM	475,-	114										
5	15	315×305×57	EOE 10K-3	170,-	99										
5	15	315×305×57	EOB 15K5	175,-	100										
5	15	400×300×117	SFE 10K-3LNM	560,-	114										
5	60	300×300×110	EOC 60K-3A	340,-	104										
5	60	318×308×75	DE 60K5A	235,-	102										
5	150	500×400×127	IFB 100K-3	650,-	110										
5	150	500×400×127	IFC 150K-3	690,-	108										
5	150	500×400×127	IXC 100K-3	850,-	112										
5	150	650×500×139	IXC 100K-3L	1010,-	112										
5	150	650×500×139	IFB 100K-3L	800,-	110										
5	150	650×500×139	IFC 150K-3L	890,-	108										
10 20	30 60	300×300×110	EOC 60K-2	340,-	104										
10 20	30 60	318×308×75	DE 60K10D	205,-	102										
10 20	30 60	400×300×110	IOC 60K-2M	410,-	106										
10 20	30 60	400×300×117	IFB 60K10DM	520,-	110										
10 20	30 60	400×300×117	IFC 60K10DM	550,-	108										
10 20	30 60	400×300×117	IXC 60K-2M	780,-	112										
10 20	30 60	500×400×120	EOC 60K-2L	380,-	104										
10 20	30 60	500×400×120	IOC 60K-2LM	500,-	106										
10 20	30 60	500×400×127	IFB 60K10DLM	670,-	110										
10 20	30 60	500×400×127	IFC 60K10DLM	730,-	108										
10 20	30 60	500×400×127	IXC 60K-2LM	870,-	112										
10 20	30 60	522×403×83	DE 60K10DL	360,-	102										
10 20	300 600	800×600×200	IOC 600K-2	870,-	106										
10	30	300×240×109	SFE 30K-2NM	490,-	114										
10	35	315×305×57	EOE 30K-2	170,-	99										
10	35	315×305×57	EOB 35K10	175,-	100										
10	120	318×308×75	DE 120K10A	240,-	102										
10	120	500×400×120	EOC 100K-2A	395,-	104										
10	300	650×500×139	IXC 300K-3	1200,-	112										
10	300	650×500×139	IFB 300K-2	920,-	110										
10	300	650×500×139	IFC 300K-2	900,-	108										
20 50	60 150	300×300×110	EOC 100K-2	335,-	104										
20 50	60 150	318×308×75	DE 150K20D	215,-	102										
20 50	60 150	500×400×120	EOC 100K-2L	380,-	104										
20 50	60 150	500×400×120	IOC 100K-2M	500,-	106										
20 50	60 150	500×400×127	IFB 150K20DM	650,-	110										
20 50	60 150	500×400×127	IFC 150K20DM	690,-	108										
20 50	60 150	500×400×127	IXC 100K-2M	850,-	112										
20 50	60 150	522×403×83	DE 150K20DL	350,-	102										
20 50	60 150	600×500×150	EOC 100K-2XL	560,-	104										
20 50	60 150	650×500×139	IXC 100K-2LM	1010,-	112										
20 50	60 150	650×500×139	IFB 150K20DLM	870,-	110										
20 50	60 150	650×500×139	IFC 150K20DLM	900,-	108										
20 50	60 150	650×500×150	IOC 100K-2LM	700,-	106										
20 50	60 150	650×500×89	DE 150K20DXL	500,-	102										
20 50	60 150	950×500×60	EOC 100K-2XXL	580,-	104										
20	60	315×305×57	EOE 60K-2	170,-	99										
20	60	315×305×57	EOB 60K20	175,-	100										
20	60	400×300×117	SFE 60K-2NM	550,-	114										
20	60	500×400×127	SFE 60K-2LNM	670,-	114										
20	60	550×550×58	EOE 60K-2L	285,-	99										

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● Standard ○ Option

Quick-Finder Parcel Scales/Platform Scales

Readability	Weighing capacity	Weighing plate	Model	Price	Page	         									
[d]	[Max]	W×D×H	KERN	excl. of VAT		For an explanation on the pictos, see the front flap									
g	kg	mm		€											
20	60	550×550×58	EOB 60K20L	350,-	100										
20	600	800×600×192	IFC 600K-2	1090,-	108										
20	600	800×600×192	IFB 600K-2	1240,-	110										
50 100	150 300	500×400×120	EOC 300K-2	400,-	104										
50 100	150 300	522×403×83	DE 300K50D	350,-	102										
50 100	150 300	600×500×150	EOC 300K-2L	580,-	104										
50 100	150 300	650×500×139	IXC 300K-2M	1200,-	112										
50 100	150 300	650×500×139	IFB 300K50DM	840,-	110										
50 100	150 300	650×500×139	IFC 300K50DM	900,-	108										
50 100	150 300	650×500×150	IOC 300K-2M	720,-	106										
50 100	150 300	650×500×90	DE 300K50DL	500,-	102										
50	150	315×305×57	EOE 100K-2	170,-	99										
50	150	315×305×57	EOB 150K50	175,-	100										
50	150	500×400×127	SFE 100K-2NM	580,-	114										
50	150	500×400×127	SFE 100K-2LNM	650,-	114										
50	150	550×550×58	EOE 150K50L	290,-	99										
50	150	550×550×58	EOB 150K50L	350,-	100										
50	150	650×500×139	SFE 100K-2XLNM	930,-	114										
50	150	950×500×58	EOE 150K50XL	315,-	99										
50	150	950×500×58	EOB 150K50XL	425,-	100										
50	150	950×500×58	EOS 150K50XL	470,-	101										
100 200	300 600	800×600×192	IFC 600K100DM	1090,-	108										
100 200	300 600	800×600×192	IFB 600K-1M	1310,-	110										
100 200	300 600	800×600×200	IOC 600K-1M	840,-	106										
100	300	315×305×57	EOE 300K100	170,-	99										
100	300	315×305×57	EOB 300K100A	175,-	100										
100	300	550×550×58	EOE 300K100L	285,-	99										
100	300	550×550×58	EOB 300K100L	350,-	100										
100	300	650×500×139	SFE 300K-1LNM	910,-	114										
100	300	950×500×58	EOE 300K100XL	320,-	99										
100	300	950×500×58	EOB 300K100XL	425,-	100										
100	300	950×500×58	EOS 300K100XL	470,-	101										

News 2025

● Standard ○ Option



Parcel scales with big platform for fast and easy weighing in the office, production, dispatch etc.

Features

- Thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations
- Wall mount for display device, standard
- Hold function: When the weighing conditions are unstable, a stable weight is calculated determining an average value

Technical data

- Large LCD display, digit height 25 mm
- Weighing platform dimensions, steel, lacquered
 - A** W×D×H 315×305×57 mm
 - B** W×D×H 550×550×58 mm, see larger picture
 - C** W×D×H 950×500×58 mm
- Dimensions of display device W×D×H 235×114×51 mm
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 100 h
- Permissible ambient temperature 5 °C/35 °C

Accessories

- Protective working cover over the display device, scope of delivery 5 items, KERN EOB-A04BS05, **€ 44,-**
- Stand to elevate display device, and screwed onto the platform, height of stand approx. 480 mm, for models with weighing plate size **A** KERN EOB-A01N, **€ 70,-**
- Stand to elevate display device, height of stand approx. 1000 mm, KERN EOB-A02B, **€ 112,-**
- **1** Non-slip rubber mat, W×D×H 945×505×5 mm, KERN EOE-A01, **€ 50,-**

STANDARD



OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options	
								DAKKS Calibr. Certificate	
KERN								DAKKS KERN	€
EOE 10K-3	15	5	5	± 10	4,0	A	170,-	963-128	124,-
EOE 30K-2	35	10	10	± 20	4,0	A	170,-	963-128	124,-
EOE 60K-2	60	20	20	± 40	4,0	A	170,-	963-129	153,-
EOE 60K-2L	60	20	20	± 40	14	B	285,-	963-129	153,-
EOE 100K-2	150	50	50	± 100	4,0	A	170,-	963-129	153,-
EOE 150K50L	150	50	50	± 100	14	B	290,-	963-129	153,-
EOE 150K50XL	150	50	50	± 100	18	C	315,-	963-129	153,-
EOE 300K100	300	100	100	± 200	4,0	A	170,-	963-129	153,-
EOE 300K100L	300	100	100	± 200	14	B	285,-	963-129	153,-
EOE 300K100XL	300	100	100	± 200	18	C	320,-	963-129	153,-



Allround parcel scale with robust stainless steel weighing plate – also with XL platform and large weighing ranges

Features

- Weighing plate stainless steel, painted steel base
- Simple and convenient 4-key operation
- Wall mount for display device, standard
- Hold function: When the weighing conditions are unstable, a stable weight is calculated determining an average value
- Protective working cover included with delivery
- Universal external mains adapter included with delivery

Technical data

- Large LCD display, digit height 25 mm
- Weighing platform dimensions, stainless steel
 - A** W×D×H 315×305×57 mm
 - B** W×D×H 550×550×58 mm, see larger picture
 - C** W×D×H 950×500×58 mm
- Dimensions of display device W×D×H 235×114×51 mm
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 60 h
- Permissible ambient temperature 5 °C/35 °C

Accessories

- Protective working cover over the display device, scope of delivery 5 items, KERN EOB-A04BS05, **€ 44,-**
- **1** Stand to elevate display device, and screwed onto the platform, height of stand approx. 480 mm, for models with weighing plate size **A** KERN EOB-A01N, **€ 70,-**
- **2** Stand to elevate display device, height of stand approx. 1000 mm, KERN EOB-A02B, **€ 112,-**
- **3** Non-slip rubber mat, W×D×H 945×505×5 mm, KERN EOE-A01, **€ 50,-**

STANDARD



OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Cable length (Spiral cable) approx. m	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options	
									DAKKS Calibr. Certificate	
KERN									DAKKS KERN	€
EOB 15K5	15	5	5	± 10	1,8	3,8	A	175,-	963-128	124,-
EOB 35K10	35	10	10	± 20	1,8	3,8	A	175,-	963-128	124,-
EOB 60K20	60	20	20	± 40	1,8	3,8	A	175,-	963-129	153,-
EOB 60K20L	60	20	20	± 40	2,7	13	B	350,-	963-129	153,-
EOB 150K50	150	50	50	± 100	1,8	3,8	A	175,-	963-129	153,-
EOB 150K50L	150	50	50	± 100	2,7	13	B	350,-	963-129	153,-
EOB 150K50XL	150	50	50	± 100	2,7	17	C	425,-	963-129	153,-
EOB 300K100A	300	100	100	± 200	1,8	3,8	A	175,-	963-129	153,-
EOB 300K100L	300	100	100	± 200	2,7	13	B	350,-	963-129	153,-
EOB 300K100XL	300	100	100	± 200	2,7	17	C	425,-	963-129	153,-



Heavy duty parcel and veterinary platform scale with extra large stainless steel weighing plate

Features

- Weighing plate stainless steel, painted steel base
- Simple and convenient 4-key operation
- Wall mount for display device, standard
- Hold function: When the weighing conditions are unstable, a stable weight is calculated determining an average value
- 1 The scale can be easily transported using rollers and a handle and does not require much storage space
- Protective working cover included with delivery
- Non-slip rubber mat included with delivery
- Universal external mains adapter included with delivery

Technical data

- Large LCD display, digit height 25 mm
- Weighing platform dimensions, stainless steel, W×D×H 950×500×58 mm
- Dimensions of display device W×D×H 235×114×51 mm
- Cable length display device, spiral cable, approx. 2,7 m
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 60 h
- Permissible ambient temperature 5 °C/35 °C

Accessories

- Protective working cover over the display device, scope of delivery 5 items, KERN EOB-A04BS05, € 44,-
- 2 Stand to elevate display device, height of stand approx. 1000 mm, KERN EOB-A02B, € 112,-

10

STANDARD

CAL EXT

UNIT

MOVE

BATT

MULTI

DMS

1 DAY

OPTION

DAkKS

+3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Net weight approx. kg	Price excl. of VAT ex works €	Options	
							DAkKS Calibr. Certificate	
							DAkKS KERN	€
KERN EOS 150K50XL	150	50	50	± 100	19	470,-	963-129	153,-
KERN EOS 300K100XL	300	100	100	± 200	19	470,-	963-129	153,-



The long lasting story of success with dust and spray protected display device

10



Animal weighing



Recipe-weighing



Piece counting



Features

- Thanks to battery operation/rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- Display device: Plastics, protection against dust and water splashes IP65, flexible positioning
- Weighing plate stainless steel, painted steel base
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- With the recipe function you can weigh the different ingredients of a mixture. As a check, you can also call up the total weight of all the ingredients
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar
- Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 25 mm
- Weighing platform dimensions, stainless steel
 - A** W×D×H 318×308×75 mm
 - B** W×D×H 318×308×88 mm
 - C** W×D×H 522×403×83 mm, see larger picture
 - D** W×D×H 522×406×98 mm
 - E** W×D×H 650×500×89 mm
- Dimensions of display device W×D×H 225×110×55 mm
- Optional battery operation, 9 V block not included in scope of delivery, operating time up to 12 h
- Permissible ambient temperature 5 °C/35 °C

Accessories

- Protective working cover over the display device, scope of delivery 5 items, KERN DE-A12S05, **€ 44,-**
- Internal rechargeable battery pack, operating time up to 30 h without backlight, charging time approx. 10 h, KERN NDE-A02, **€ 60,-**
- Wall mount for display device, KERN DE-A13, **€ 32,-**
- **2** Stand to elevate display device, Height of stand approx. 480 mm, KERN DE-A10, **€ 128,-**
- Suitable for models with weighing plate size **C**, **D**, **E**: Mount to fasten the display device to the platform, KERN DE-A11N, **€ 40,-**
- Individual header data: the free software SHM-01 can be used to print 4 header lines on the printout when using printer YKN-01
- Further details, plenty of further accessories and suitable printers see *Accessories*

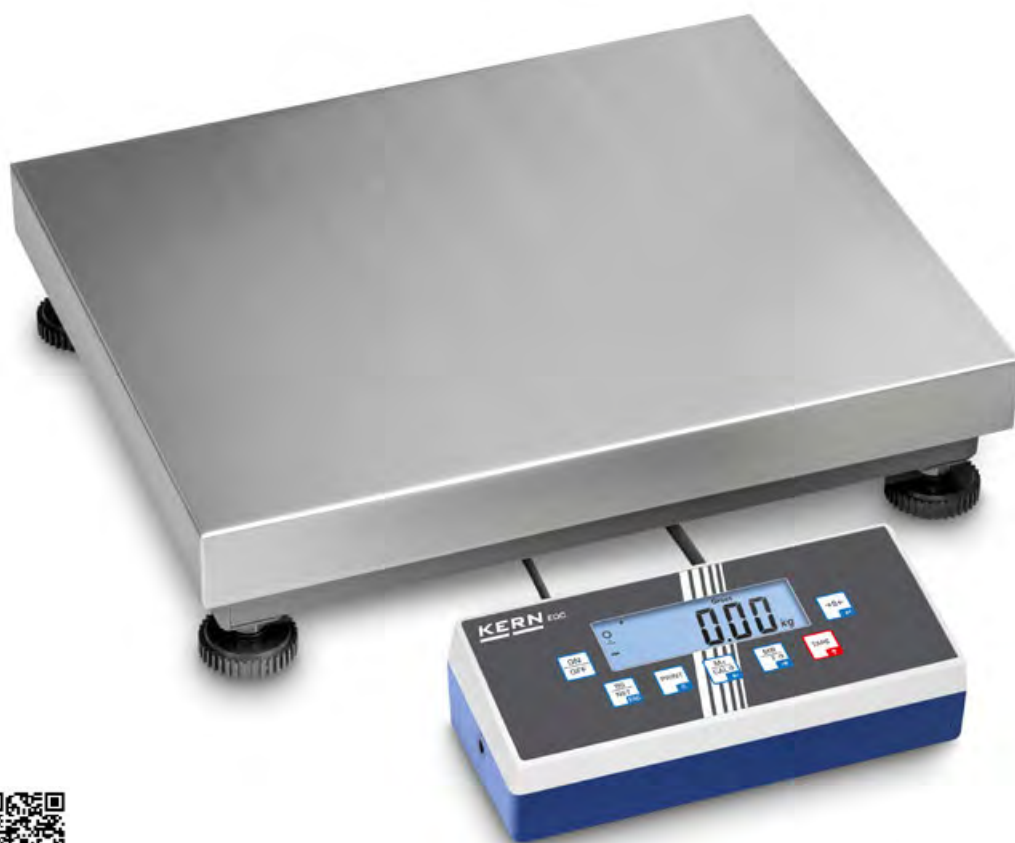
STANDARD



OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Smallest part weight (Normal) g/piece	Cable length approx. m	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works	Options		
										DAKKS	Calibr.	Certificate
KERN										KERN		€
Multi-division balance with high resolution readability, with increasing or decreasing load, it switches automatically to the next largest or smallest weighing range [Max] and readout [d].												
DE 15K0.2D	6 15	0,2 0,5	0,2 0,5	± 0,8 2	4	1	4,0	B	365,-	963-128		124,-
DE 35K0.5D	15 35	0,5 1	0,5 1	± 2 4	10	1	7	B	360,-	963-128		124,-
DE 60K1D	30 60	1 2	1 2	± 4 8	20	1,47	7	B	360,-	963-129		153,-
DE 60K1DL	30 60	1 2	1 2	± 4 8	20	1,4	15	D	480,-	963-129		153,-
DE 150K2D	60 150	2 5	2 5	± 8 20	40	1,6	7	B	365,-	963-129		153,-
DE 150K2DL	60 150	2 5	2 5	± 8 20	40	1,4	15	D	490,-	963-129		153,-
DE 300K5DL	150 300	5 10	5 10	± 20 40	100	1,4	15	D	490,-	963-129		153,-
Multi-division balance without high resolution readability												
DE 6K1D	3 6	1 2	1 2	± 3 6	40	1,4	4,8	A	205,-	963-128		124,-
DE 15K2D	6 15	2 5	2 5	± 6 15	100	1,4	4,8	A	205,-	963-128		124,-
DE 35K5D	15 35	5 10	5 10	± 15 30	100	1,4	4,8	A	210,-	963-128		124,-
DE 35K5DL	15 35	5 10	5 10	± 15 30	100	1,4	16	C	350,-	963-128		124,-
DE 60K10D	30 60	10 20	10 20	± 30 60	200	1,4	4,8	A	205,-	963-129		153,-
DE 60K10DL	30 60	10 20	10 20	± 30 60	200	1,4	16	C	360,-	963-129		153,-
DE 150K20D	60 150	20 50	20 50	± 60 150	400	1,5	5,0	A	215,-	963-129		153,-
DE 150K20DL	60 150	20 50	20 50	± 60 150	400	1,5	16	C	350,-	963-129		153,-
DE 150K20DXL	60 150	20 50	20 50	± 60 150	400	1,4	19	E	500,-	963-129		153,-
DE 300K50DL	150 300	50 100	50 100	± 150 300	2000	1,05	28	E	500,-	963-129		153,-
DE 300K50D	150 300	50 100	50 100	± 150 300	2000	1,25	16	C	350,-	963-129		153,-
DE 6K0.5A	6	0,5	0,5	± 1,5	10	1,4	4,8	A	235,-	963-128		124,-
DE 12K1A	12	1	1	± 3	20	1,4	4,8	A	230,-	963-128		124,-
DE 24K2A	24	2	2	± 6	40	1,4	4,8	A	240,-	963-128		124,-
DE 60K5A	60	5	5	± 15	100	1,4	4,8	A	235,-	963-129		153,-
DE 120K10A	120	10	10	± 30	200	1,4	5,0	A	240,-	963-129		153,-



Robust and high-resolution platform scale with practical Flip/Flop display device for greatest ease of use



Weighing instead of counting! Because the counting function is so easy to use, you can rapidly record large numbers of small parts – which saves time and money



Practical Flip/Flop display device: flexible positioning e.g. free-standing or screwed to the wall (optional). By rotating the upper housing shell you can determine the angle of the display as well as the cable outlet. Factory Option for an additional cost, delivery time + 2 working days, KERN KIB-M01, see *Accessories* on the right, please indicate when placing your order

Features

- Thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- **Platform:** weighing plate of stainless steel, painted steel base, silicone-coated aluminium load cell with protection against dust and water splashes IP65. Level indicator and levelling feet for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- Weighing with tolerance range: a visual and audible signal helps with portioning, dispensing or grading
- Hold function: When the weighing conditions are unstable, a stable weight is calculated determining an average value
- Benchtop stand incl. wall mount for display device as standard
- Protective working cover included with delivery
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers



Technical data

- Large backlit LCD display, digit height 25 mm
- Weighing platform dimensions W×D×H, stainless steel
 - A** 300×300×110 mm **B** 500×400×120 mm
 - C** 600×500×150 mm **D** 950×500×60 mm
- Dimensions of display device W×D×H 268×115×80 mm
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN EOC-A01S05, **€ 55,-**
- Internal rechargeable battery pack, operating time up to 43 h without backlight, charging time approx. 3 h, KERN KFB-A01, **€ 40,-**
- **2** Suitable for models with weighing plate size **A - C**: Stand, to be screwed onto the platform, height of stand approx. 330 mm, KERN EOC-A05, **€ 65,-**
- **3** Mount to fasten the display device to the platform, KERN EOC-A03, **€ 33,-**

- Benchtop stand incl. wall mount for display device, KERN EOC-A04, **€ 33,-**
- Modification of the display device, to move the cable outlet to the front of the display device, ideal e.g. for subsequent wall installation of the display device (standard configuration ex works: rear outlet), Factory Option, delivery time + 2 working days, KERN KIB-M01, **€ 104,-**

STANDARD



OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Smallest part weight (Normal) g/piece	Cable length Spiral cable** approx. m	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options	
										DAkkS Calibr. Certificate	
										DAkkS KERN	€
KERN											
Multi-range balance with high-resolution display, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range											
EOC 10K-4	6 15	0,2 0,5	0,2 0,5	± 0,6 1,5	5	3	6	A	330,-	963-128	124,-
EOC 30K-4S	15 35	0,5 1	0,5 1	± 1,5 3	10	3	6	A	330,-	963-128	124,-
EOC 30K-4	15 35	0,5 1	0,5 1	± 1,5 3	10	3	9	B	390,-	963-128	124,-
EOC 60K-3	30 60	1 2	1 2	± 3 6	20	3	7	A	330,-	963-129	153,-
EOC 60K-3L	30 60	1 2	1 2	± 3 6	20	3	9	B	400,-	963-129	153,-
EOC 100K-3	60 150	2 5	2 5	± 6 15	50	3	6	A	335,-	963-129	153,-
EOC 100K-3L	60 150	2 5	2 5	± 6 15	50	3	9	B	430,-	963-129	153,-
EOC 300K-3	150 300	5 10	5 10	± 15 30	100	3	9	B	400,-	963-129	153,-
Multi-range balance without high-resolution display											
EOC 6K-3	3 6	1 2	1 2	± 3 6	2,5	3	6	A	315,-	963-128	124,-
EOC 10K-3*	6 12	2 5	2 5	± 6 15	5	3	6	A	320,-	963-128	124,-
EOC 30K-3	15 35	5 10	5 10	± 15 30	10	3	6	A	330,-	963-128	124,-
EOC 30K-3L	15 35	5 10	5 10	± 15 30	10	3	9	B	390,-	963-128	124,-
EOC 60K-2	30 60	10 20	10 20	± 30 60	20	3	7	A	340,-	963-129	153,-
EOC 60K-2L	30 60	10 20	10 20	± 30 60	20	3	9	B	380,-	963-129	153,-
EOC 100K-2	60 150	20 50	20 50	± 60 150	50	3	6	A	335,-	963-129	153,-
EOC 100K-2L	60 150	20 50	20 50	± 60 150	50	3	9	B	380,-	963-129	153,-
EOC 100K-2XL	60 150	20 50	20 50	± 60 150	50	3	19	C	560,-	963-129	153,-
EOC 100K-2XXL	60 150	20 50	20 50	± 60 150	100	**2,7	17	D	580,-	963-129	153,-
EOC 300K-2	150 300	50 100	50 100	± 150 300	100	3	9	B	400,-	963-129	153,-
EOC 300K-2L	150 300	50 100	50 100	± 150 300	100	3	19	C	580,-	963-129	153,-
EOC 6K-4A	6	0,5	0,5	± 1,5	2,5	3	6	A	330,-	963-128	124,-
EOC 10K-3A	12	1	1	± 3	5	3	7	A	330,-	963-128	124,-
EOC 20K-3A*	24	2	2	± 6	10	3	6	A	330,-	963-128	124,-
EOC 60K-3A	60	5	5	± 15	20	3	7	A	340,-	963-129	153,-
EOC 100K-2A	120	10	10	± 30	50	3	9	B	395,-	963-129	153,-

! * ONLY WHILE STOCKS LAST



Allround platform scale with a wide range of communication options, verification optional – also available as high-resolution version with fine display

10



1 Verification plug, for verified balances this enables you to separate the display device and platform without affecting the verification, e.g. for installing the scale in a packing and dispatch table, pit frame etc. at a later date. Please order this at the same time as you purchase your scale, see *Accessories*

Practical Flip/Flop display device: flexible positioning e.g. free-standing or screwed to the wall (optional). By rotating the upper housing shell you can determine the angle of the display as well as the cable outlet. Factory Option for an additional cost, delivery time + 2 working days, KERN KIB-M01, see *Accessories* on the right, please indicate when placing your order

Features

- A wide range of (optional) data interfaces allows easy transfer of weighing data to tablets, laptops, PCs, networks, smartphones, printers, etc.
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers. Only possible through data interface RS-232, other interfaces on request., for details see page 19
- Standardised, simplified concept of operation
- Thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- Platform: weighing plate of stainless steel, painted steel base, silicone-coated aluminium load cell with protection against dust and water splashes IP65
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard, to give the most accurate weighing result

Technical data

- Large LCD display, digit height 25 mm
- Weighing platform dimensions W×D×H, stainless steel

A	300×240×110 mm	B	300×300×110 mm
C	400×300×110 mm	D	500×400×120 mm
E	650×500×150 mm	F	800×600×200 mm

- Dimensions of display device W×D×H 268×115×80 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C

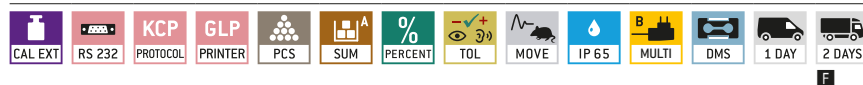
Accessories

- Protective working cover, scope of delivery 5 items, KERN EOC-A01S05, **€ 55,-**
- Stand, to be screwed onto the platform, height of stand approx. 330 mm, KERN EOC-A05, **€ 65,-**
- Mount to fasten the display device to the platform, KERN EOC-A03, **€ 33,-**
- Benchtop stand incl. wall mount for display device, KERN EOC-A04, **€ 33,-**
- Internal rechargeable battery pack, operating time up to 26 h with backlight, charging time approx. 3 h, KERN KFB-A01, **€ 40,-**
- USB data interface, for transferring weighing to the PC, printer etc., must be ordered at purchase, KERN KIB-A03, **€ 120,-**
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, KERN KIB-A04, **€ 110,-**
- WiFi interface for wireless connection of the balance to networks and WiFi capable devices, such as tablets, laptops or smartphones, continuous data transfer, must be ordered at purchase, KERN KIB-A10, **€ 130,-**

- Ethernet data interface, to connect an IP-based Ethernet network, continuous data transfer, must be ordered at purchase, KERN KIB-A02, **€ 165,-**
- Signal lamp, including interface, for visual support of weighing with tolerance range, must be ordered at purchase, KERN KIB-A06, **€ 470,-**
- 1** Verification plug, for verified balances this enables you to separate the display device and platform without affecting the verification, e.g. for installing the scale in a packing and dispatch table, pit frame etc. at a later date. Please order this at the same time as you purchase your scale, KERN KIB-A12, **€ 164,-**
- 2** Alibi memory, for paperless archiving of the weighing results with ID no., gross/net/tare value, date and time, must be ordered at purchase, KERN KIB-A13, **€ 164,-**
- Alibi memory, including USB interface for exporting weighing results to external data storage media, such as, for example, USB sticks, hard drives, etc., must be ordered at purchase, KERN KIB-A01, **€ 175,-**
- Modification of the display device, to move the cable outlet to the front of the display device, ideal e.g. for subsequent wall installation of the display device (standard configuration ex works: rear outlet), Factory Option, delivery time + 2 working days, KERN KIB-M01, **€ 104,-**

3 Note: In addition to the RS-232 data interface, which is integrated as standard, only one other data interface can be installed and operated

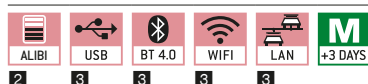
STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
								Verification	DAKKS	Calibr.	Certificate
KERN								KERN	€	KERN	€
Multi-range balance with high-resolution display, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range											
IOC 6K-4	3 6	0,1 0,2	-	20 40	6	B	390,-	-	-	963-128	124,-
IOC 10K-4	6 15	0,2 0,5	-	40 100	6	A	380,-	-	-	963-128	124,-
IOC 10K-4L	6 15	0,2 0,5	-	40 100	8	C	420,-	-	-	963-128	124,-
IOC 30K-4	15 30	0,5 1	-	100 200	8	C	420,-	-	-	963-128	124,-
IOC 60K-3	30 60	1 2	-	200 400	8	C	430,-	-	-	963-129	153,-
IOC 60K-3L	30 60	1 2	-	200 400	12	D	510,-	-	-	963-129	153,-
IOC 100K-3	60 150	2 5	-	400 1000	12	D	520,-	-	-	963-129	153,-
IOC 100K-3L	60 150	2 5	-	400 1000	22	E	700,-	-	-	963-129	153,-
IOC 300K-3	150 300	5 10	-	1000 2000	22	E	720,-	-	-	963-129	153,-
IOC 600K-2	300 600	10 20	-	2000 4000	32	F	870,-	-	-	963-130	215,-
Multi-range balance without high-resolution display											
IOC 6K-3M	3 6	1 2	1 2	20 40	6	B	390,-	965-228	84,-	963-128	124,-
IOC 10K-3M	6 15	2 5	2 5	40 100	6	A	360,-	965-228	84,-	963-128	124,-
IOC 10K-3LM	6 15	2 5	2 5	40 100	8	C	405,-	965-228	84,-	963-128	124,-
IOC 30K-3M	15 30	5 10	5 10	100 200	8	C	410,-	965-228	84,-	963-128	124,-
IOC 60K-2M	30 60	10 20	10 20	200 400	8	C	410,-	965-229	110,-	963-129	153,-
IOC 60K-2LM	30 60	10 20	10 20	200 400	12	D	500,-	965-229	110,-	963-129	153,-
IOC 100K-2M	60 150	20 50	20 50	400 1000	12	D	500,-	965-229	110,-	963-129	153,-
IOC 100K-2LM	60 150	20 50	20 50	400 1000	22	E	700,-	965-229	110,-	963-129	153,-
IOC 300K-2M	150 300	50 100	50 100	1000 2000	22	E	720,-	965-229	110,-	963-129	153,-
IOC 600K-1M	300 600	100 200	100 200	2000 4000	32	F	840,-	965-230	158,-	963-130	215,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

- 2** It is essential that a verified balance which transfers measurements to external devices using an interface, has an alibi memory (KIB-A13). It is not possible to upgrade later

1 ONLY WHILE STOCKS LAST



The new IFC: Robust industrial scales with up to three interfaces, with optional verification

Features

- Tough industry standard suitable for use in harsh industrial applications
- Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay. Available as an option: RS-232, USB, Ethernet, WiFi, Bluetooth
- Each interface can be set up separately, e.g.:
 - Interface 1 (WiFi): Continuous sending to a PC for documentation of a process
 - Interface 2 (RS-232): Print stable weight
 - Interface 3 (analogue module): Controlling a device when the target weight is reached
- With Real Time Clock as standard: Enables you to log the weighing results with accurate time information. Even if the power supply is interrupted, the balance can continue to work with the correct time

- Available as an option with alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- Simplified battery replacement through easily-accessible housing. Particularly advantageous for models with optional verification, as the verification seal remains intact
- Platform: weighing plate of stainless steel, painted steel base, silicone-coated aluminium load cell with protection against dust and water splashes IP65
- Benchtop stand incl. wall mount for display device as standard
- Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 48 mm
- Weighing platform dimensions
 - A** W×D×H 230×230×106 mm
 - B** W×D×H 300×240×109 mm
 - C** W×D×H 400×300×117 mm (see larger picture)
 - D** W×D×H 500×400×127 mm
 - E** W×D×H 650×500×139 mm
 - F** W×D×H 800×600×192 mm
- Dimensions of display device W×D×H 220×145×65 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C



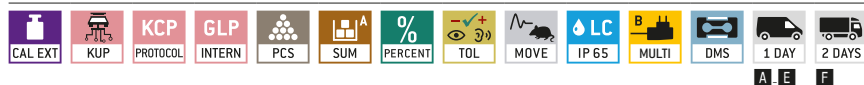
Accessories

- Protective working cover, scope of delivery 5 items, KERN YBA-A18S05, **€ 52,-**
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, **€ 35,-**
- **1** Stand to elevate display device, height of stand approx. 1040 mm, KERN BFS-A07, **€ 170,-**
- Column for screwing the display device to the platform, for models with weighing plate size **A - F** Height of stand approx. 330 mm, KERN IFB-A01, **€ 68,-**
C, D, E, F Height of stand approx. 600 mm, KERN IFB-A02, **€ 81,-**
- RS-232 interface adapter, KERN KUP-01, **€ 60,-**

- USB interface adapter, KERN KUP-03, **€ 75,-**
- Ethernet interface adapter, KERN KUP-04, **€ 115,-**
- WiFi interface adapter, KERN KUP-05, **€ 75,-**
- Bluetooth interface adapter, KERN KUP-06, **€ 99,-**
- Analogue module, KERN KUP-08, **€ 170,-**
- **2** * Extension box for connecting up to three interfaces in parallel, KERN KUP-13, **€ 75,-**
- Memory module (alibi memory), KERN YMM-04, **€ 80,-**
- ESD drain to protect against electrostatic discharge e.g. for electrostatically-charged weighing objects or people who work with the scale, KERN YGR-01, **€ 60,-**

- Signal lamp for visual support of weighing with tolerance range, connection is only possible in combination with KUP-01 (RS-232 interface), KERN CFS-A03, **€ 310,-**
- **3** Roller conveyor attachment, with smooth-running, hot-dip galvanised steel rollers with ball bearings, robust aluminium profile frame for models ≥ 30 kg [Max] with weighing plate size
C KERN YRO-01, **€ 830,-**
D KERN YRO-02, **€ 870,-**
E KERN YRO-03, **€ 1200,-**

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max]	Readability	Verification value	Minimal load	Net weight approx.	Weighing plate	Price excl. of VAT ex works €	Options			
								Verification	DAKKS	Calibr.	Certificate
KERN	kg	[d]	[e]	[Min]	kg			KERN	€	KERN	€
IFC 3K-4	3	0,1	-	-	4,6	A	435,-	-	-	963-127	103,-
IFC 6K-4S	6	0,2	-	-	4,6	A	435,-	-	-	963-128	124,-
IFC 6K-4	6	0,2	-	-	5,0	B	450,-	-	-	963-128	124,-
IFC 10K-4	15	0,5	-	-	5,0	B	470,-	-	-	963-128	124,-
IFC 10K-4L	15	0,5	-	-	8	C	520,-	-	-	963-128	124,-
IFC 30K-3	30	1	-	-	8	C	540,-	-	-	963-128	124,-
IFC 60K-3	60	2	-	-	7	C	550,-	-	-	963-129	153,-
IFC 60K-3L	60	2	-	-	10	D	730,-	-	-	963-129	153,-
IFC 150K-3	150	5	-	-	11	D	690,-	-	-	963-129	153,-
IFC 150K-3L	150	5	-	-	18	E	890,-	-	-	963-129	153,-
IFC 300K-2	300	10	-	-	20	E	900,-	-	-	963-129	153,-
IFC 600K-2	600	20	-	-	40	F	1090,-	-	-	963-130	215,-

Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range

IFC 6K1DSM	3 6	1 2	1 2	20 40	4,6	A	435,-	965-228	84,-	963-128	124,-
IFC 6K1DM	3 6	1 2	1 2	20 40	6	B	440,-	965-228	84,-	963-128	124,-
IFC 15K2DM	6 15	2 5	2 5	40 100	5,0	B	500,-	965-228	84,-	963-128	124,-
IFC 15K2DLM	6 15	2 5	2 5	40 100	7	C	550,-	965-228	84,-	963-128	124,-
IFC 30K5DM	15 30	5 10	5 10	100 200	8	C	540,-	965-228	84,-	963-128	124,-
IFC 60K10DM	30 60	10 20	10 20	200 400	7	C	550,-	965-229	110,-	963-129	153,-
IFC 60K10DLM	30 60	10 20	10 20	200 400	10	D	730,-	965-229	110,-	963-129	153,-
IFC 150K20DM	60 150	20 50	20 50	400 1000	10	D	690,-	965-229	110,-	963-129	153,-
IFC 150K20DLM	60 150	20 50	20 50	400 1000	20	E	900,-	965-229	110,-	963-129	153,-
IFC 300K50DM	150 300	50 100	50 100	1000 2000	20	E	900,-	965-229	110,-	963-129	153,-
IFC 600K100DM	300 600	100 200	100 200	2000 4000	44	F	1090,-	965-230	158,-	963-130	215,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

New model



High-resolution industrial scale in heavy version, now also up to [Max] 600 kg, verification optional

Features

- Platform: weighing plate of stainless steel, painted steel base, silicone-coated aluminium load cell with protection against dust and water splashes IP65
- Benchtop stand incl. wall mount for display device as standard
- Protective working cover included with delivery

Technical data

- Backlit LCD display, digit height 52 mm
- Weighing platform dimensions W×D×H, stainless steel
 - A** 230×230×106 mm **B** 300×240×109 mm
 - C** 400×300×114 mm **D** 500×400×127 mm
 - E** 650×500×139 mm **F** 800×600×192 mm
- Dimensions of display device W×D×H 250×160×58 mm

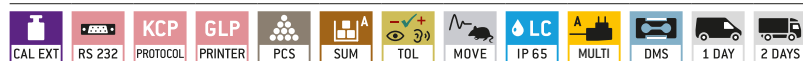


- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover over the display device, scope of delivery 5 items, KERN KFB-A02S05, **€ 52,-**
- I** Stand to elevate display device, for models with weighing plate size **A-E**: Height of stand approx. 330 mm, KERN IFB-A01, **€ 68,-**
D-F: Height of stand approx. 600 mm, KERN IFB-A02, **€ 81,-**
- A-F**: Stand to elevate display device, height of stand approx. 1040 mm, KERN BFS-A07, **€ 170,-**
- Internal rechargeable battery pack, operating time up to 35 h without backlight, charging time approx. 12 h, must be ordered at purchase, KERN KFB-A01, **€ 40,-**
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification. When installing the Bluetooth data interface, the RS-232 data interface can no longer be used, KERN KFB-A03, **€ 160,-**
- Analogue module, not possible in combination with signal lamp or rechargeable battery pack 0-10 V: KERN KFB-A04, **€ 170,-**
4-20 mA: KERN KFB-A05, **€ 170,-**

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
								Verification	DAkKS	Calibr.	Certificate
KERN								M KERN	€	DAkKS KERN	€
IFB 3K-4	3	0,1	-	-	4,6	A	455,-	-	-	963-127	103,-
IFB 6K-4S	6	0,2	-	-	4,6	A	390,-	-	-	963-128	124,-
IFB 6K-4	6	0,2	-	-	5,0	B	400,-	-	-	963-128	124,-
IFB 10K-4	15	0,5	-	-	5,0	B	415,-	-	-	963-128	124,-
IFB 60K-3L	60	2	-	-	11	D	650,-	-	-	963-129	153,-
IFB 100K-3	150	5	-	-	11	D	650,-	-	-	963-129	153,-
IFB 100K-3L	150	5	-	-	18	E	800,-	-	-	963-129	153,-
IFB 300K-2	300	10	-	-	20	E	920,-	-	-	963-129	153,-
IFB 600K-2	600	20	-	-	40	F	1240,-	-	-	963-130	215,-

Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range

IFB 6K-3SM	3 6	1 2	1 2	20 40	4,6	A	390,-	965-228	84,-	963-128	124,-
IFB 6K1DM	3 6	1 2	1 2	20 40	6	B	400,-	965-228	84,-	963-128	124,-
IFB 15K2DM	6 15	2 5	2 5	40 100	5,0	B	435,-	965-228	84,-	963-128	124,-
IFB 15K2DLM	6 15	2 5	2 5	40 100	7	C	550,-	965-228	84,-	963-128	124,-
IFB 30K5DM	15 30	5 10	5 10	100 200	8	C	520,-	965-228	84,-	963-128	124,-
IFB 60K10DM	30 60	10 20	10 20	200 400	7	C	520,-	965-229	110,-	963-129	153,-
IFB 60K10DLM	30 60	10 20	10 20	200 400	11	D	670,-	965-229	110,-	963-129	153,-
IFB 150K20DM	60 150	20 50	20 50	400 1000	11	D	650,-	965-229	110,-	963-129	153,-
IFB 150K20DLM	60 150	20 50	20 50	400 1000	18	E	870,-	965-229	110,-	963-129	153,-
IFB 300K50DM	150 300	50 100	50 100	1000 2000	20	E	840,-	965-229	110,-	963-129	153,-
IFB 600K-1M	300 600	100 200	100 200	2000 4000	44	F	1310,-	965-230	158,-	963-130	215,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.

The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

I ONLY WHILE STOCKS LAST



Precision industrial scale with laboratory accuracy, ideal for the diverse possibilities of Industry 4.0 applications

Features

- High-capacity precision balance, ideal for high volume or heavy samples
- Numerical subtraction of tare weight for known container weight. Useful for checking fill-levels
- The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Freely programmable weighing unit, e.g. display direct in special units such as length of wire g/m, surface weight g/m², or else
- KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay

- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 21 mm
- Weighing platform dimensions, stainless steel
 - A** W×D×H 230×230×103 mm
 - B** W×D×H 308×318×75 mm
 - C** W×D×H 500×400×125 mm, see larger picture
- Dimensions of display device W×D×H 225×115×60 mm
- Permissible ambient temperature -10 °C/40 °C



Accessories

- Internal rechargeable battery pack, operating time up to 24 h with backlight, charging time approx. 8 h, KERN YKR-01, **€ 35,-**
- Protective working cover over the display device, scope of delivery 5 items, KERN DE-A12S05, **€ 44,-**
- **1** Column for screwing the display device to the platform
 - B, C**: Height of stand approx. 480 mm, KERN DE-A10, **€ 128,-**
 - C**: Height of stand approx. 600 mm, KERN DS-A03, **€ 140,-**
- **B**: Mount to fasten the display device to the platform, KERN DE-A11N, **€ 40,-**
- Wall mount for display device, KERN DE-A13, **€ 32,-**
- **2** Set for underfloor weighing, consists of platform, bow, hook, only for models with weighing plate **B**, KERN DS-A01, **€ 230,-**
- RS-232 interface adapter, KERN KUP-01, **€ 60,-**
- USB interface adapter, KERN KUP-03, **€ 75,-**
- Ethernet interface adapter, KERN KUP-04, **€ 115,-**
- WiFi interface adapter, KERN KUP-05, **€ 75,-**
- Bluetooth interface adapter, KERN KUP-06, **€ 99,-**
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13, **€ 75,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Smallest part weight (Normal) g/piece	Resolution Points	Cable length approx. m	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options	
									DAKKS	Calibr. Certificate
KERN									KERN	€
DS 3K0.01S	3	0,01	0,1	300.000	2,5	4,2	A	710,-	963-127	103,-
DS 5K0.05S*	5	0,05	0,1	100.000	2,5	4,2	A	640,-	963-127	103,-
DS 8K0.05	8	0,05	0,5	160.000	2,5	8	B	640,-	963-128	124,-
DS 10K0.1S	10	0,1	1	100.000	2,5	4,2	A	640,-	963-128	124,-
DS 16K0.1	16	0,1	1	160.000	2,5	8	B	630,-	963-128	124,-
DS 20K0.1	20	0,1	1	200.000	2,5	8	B	640,-	963-128	124,-
DS 30K0.1	30	0,1	1	300.000	2,5	8	B	720,-	963-128	124,-
DS 30K0.1L	30	0,1	1	300.000	2,5	19	C	1150,-	963-128	124,-
DS 36K0.2	36	0,2	1	180.000	2,5	10	B	650,-	963-128	124,-
DS 36K0.2L	36	0,2	1	180.000	2,5	19	C	1070,-	963-128	124,-
DS 60K0.2	60	0,2	2	300.000	2,5	19	C	1150,-	963-129	153,-
DS 65K0.5	65	0,5	5	130.000	2,5	19	C	1080,-	963-129	153,-
DS 100K0.5	100	0,5	5	200.000	2,5	19	C	1140,-	963-129	153,-
DS 150K1	150	1	10	150.000	2,5	19	C	1140,-	963-129	153,-

! * ONLY WHILE STOCKS LAST



Convenience for industry: Stainless steel platform scales with up to four interfaces and intuitive operation, with optional verification

Features

- Tough industry standard suitable for use in harsh industrial applications
- Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- The exchange of data and control commands is optional using up to four interfaces to suit individual requirements: two wired connections (RS-232, Ethernet, USB or analogue module) and two wireless connections (WiFi, Bluetooth)
- Each interface can be set up separately, e.g.:
 - Interface 1 (WiFi): Continuous sending to a PC for documentation of a process
 - Interface 2 (RS-232): Print stable weight
 - Interface 3 (analogue module): Controlling a device when the target weight is reached
 - Interface 4 (Bluetooth): Continuous sending to a tablet to monitor a process

- Available as an option with alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- Platform: weighing plate of stainless steel, painted steel base, silicone-coated aluminium load cell with protection against dust and water splashes IP65
- Display device: stainless steel, protection against dust and water splashes IP68, integrated power supply
- Superior display size: digit height 48 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions

Technical data

- Large backlit LCD display, digit height 48 mm
- Weighing platform dimensions, stainless steel
 - A** W×D×H 300×240×109 mm
 - B** W×D×H 400×300×117 mm, see larger picture
 - C** W×D×H 500×400×127 mm
 - D** W×D×H 650×500×139 mm
- Dimensions of display device W×D×H 232×150×80 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C



Accessories

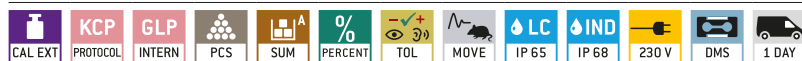
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, **€ 35,-**
- Stand to elevate display device
 - 1** Height of stand approx. 330 mm, KERN IXC-A01, **€ 110,-**
 - 2** Height of stand approx. 600 mm, not suitable for models with weighing plate size **A**, KERN IXC-A02, **€ 110,-**
- Internal data interface RS-232, interface cable included, KERN KUM-01, **€ 120,-**
- Internal data interface USB, interface cable included, KERN KUM-03, **€ 120,-**
- Internal data interface Ethernet, interface cable included, KERN KUM-04, **€ 165,-**

- Internal data interface WiFi, KERN KUM-05, **€ 95,-**
- Internal data interface Bluetooth, KERN KUM-06, **€ 135,-**
- Analogue module, KERN KUM-08, **€ 145,-**
- Memory module with real time clock (alibi memory), KERN YMM-06, **€ 160,-**
- ESD drain to protect against electrostatic discharge e.g. for electrostatically-charged weighing objects or people who work with the scale, KERN YGR-01, **€ 60,-**
- Signal lamp for visual support of weighing with tolerance range, (only in combination with Data interface RS-232 KERN KUM-01), KERN CFS-A03, **€ 310,-**

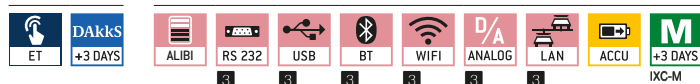
- Roller conveyor attachment, with smooth-running, hot-dip galvanised steel rollers with ball bearings, robust aluminium profile frame for models with weighing plate size
 - B** KERN YRO-01, **€ 830,-**
 - C** KERN YRO-02, **€ 870,-**
 - D** KERN YRO-03, **€ 1200,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

3 Note: only two wired connections (RS-232, Ethernet, USB or analogue module) and two wireless connections (WiFi, Bluetooth) can be used at the same time

STANDARD



OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Net weight approx. kg	Weighing plate A	Price excl. of VAT ex works €	Options		
								Verification KERN	€	DAkkS Calibr. Certificate KERN
KERN										
IXC 6K-4	6	0,2	-	-	6	A	660,-	-	-	963-128
IXC 10K-4	15	0,5	-	-	6	A	680,-	-	-	963-128
IXC 10K-4L	15	0,5	-	-	7	B	740,-	-	-	963-128
IXC 30K-3	30	1	-	-	8	B	720,-	-	-	963-128
IXC 30K-3L	30	1	-	-	11	C	860,-	-	-	963-128
IXC 60K-3	60	2	-	-	7	B	780,-	-	-	963-129
IXC 60K-3L	60	2	-	-	11	C	870,-	-	-	963-129
IXC 100K-3	150	5	-	-	11	C	850,-	-	-	963-129
IXC 100K-3L	150	5	-	-	19	D	1010,-	-	-	963-129
IXC 300K-3	300	10	-	-	20	D	1200,-	-	-	963-129

Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range

IXC 6K-3M	3 6	1 2	1 2	20 40	6	A	660,-	965-228	84,-	963-128	124,-
IXC 10K-3M	6 15	2 5	2 5	40 100	6	A	680,-	965-228	84,-	963-128	124,-
IXC 10K-3LM	6 15	2 5	2 5	40 100	7	B	740,-	965-228	84,-	963-128	124,-
IXC 30K-3M	15 30	5 10	5 10	100 200	7	B	720,-	965-228	84,-	963-128	124,-
IXC 30K-3LM	15 30	5 10	5 10	100 200	11	C	860,-	965-228	84,-	963-128	124,-
IXC 60K-2M	30 60	10 20	10 20	200 400	7	B	780,-	965-229	110,-	963-129	153,-
IXC 60K-2LM	30 60	10 20	10 20	200 400	11	C	870,-	965-229	110,-	963-129	153,-
IXC 100K-2M	60 150	20 50	20 50	400 1000	11	C	850,-	965-229	110,-	963-129	153,-
IXC 100K-2LM	60 150	20 50	20 50	400 1000	18	D	1010,-	965-229	110,-	963-129	153,-
IXC 300K-2M	150 300	50 100	50 100	1000 2000	20	D	1200,-	965-229	110,-	963-129	153,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.



Platform scale with IP65 dust and spray protection, verification optional

Features

- Platform scale protected to IP65 with stainless steel display device, for industrial applications, hygienic and easy to clean
- 1** Platform: weighing plate of stainless steel, painted steel base, silicone-coated aluminium load cell with protection against dust and water splashes IP65
- Display device: stainless steel, protection against dust and water splashes IP65, flexible positioning, for details see KERN KFE-TM
- Weighing with tolerance range: a visual and audible signal helps with portioning, dispensing or grading
- Hold function: When the weighing conditions are unstable, a stable weight is calculated determining an average value

Technical data

- Large backlit LCD display, digit height 22 mm
- Weighing platform dimensions, stainless steel
 - A** W×D×H 300×240×109 mm, see larger picture
 - B** W×D×H 400×300×117 mm
 - C** W×D×H 500×400×127 mm
 - D** W×D×H 650×500×139 mm
- Dimensions of display device W×D×H 195×120×70 mm
- Rechargeable battery pack integrated, as standard, operating time up to 35 h without backlight, charging time approx. 12 h
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Stand to elevate display device
 - 2** for models with weighing plate size **A**–**D**: Height of stand approx. 200 mm, KERN SFE-A01, **€ 75,-**
 - 2** for models with weighing plate size **B**–**D**: Height of stand approx. 400 mm, KERN SFE-A02, **€ 75,-**
 - 3** for models with weighing plate size **C**–**D**: Height of stand approx. 600 mm, KERN SFE-A03, **€ 95,-**
- Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruits, vegetables, etc., overall dimensions W×D×H 400×300×45 mm, KERN RFS-A02, **€ 75,-**

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
								Verification		DAkkS Calibr. Certificate	
KERN								KERN	€	DAkkS KERN	€
SFE 6K-3NM	6	2	2	40	6	A	490,-	965-228	84,-	963-128	124,-
SFE 10K-3NM	15	5	5	100	6	A	475,-	965-228	84,-	963-128	124,-
SFE 10K-3LNM	15	5	5	100	8	B	560,-	965-228	84,-	963-128	124,-
SFE 30K-2NM	30	10	10	200	6	A	490,-	965-228	84,-	963-128	124,-
SFE 60K-2NM	60	20	20	400	8	B	550,-	965-229	110,-	963-129	153,-
SFE 60K-2LNM	60	20	20	400	12	C	670,-	965-229	110,-	963-129	153,-
SFE 100K-2NM	150	50	50	1000	8	B	580,-	965-229	110,-	963-129	153,-
SFE 100K-2LNM	150	50	50	1000	12	C	650,-	965-229	110,-	963-129	153,-
SFE 100K-2XLNM	150	50	50	1000	22	D	930,-	965-229	110,-	963-129	153,-
SFE 300K-1LNM	300	100	100	2000	22	D	910,-	965-229	110,-	963-129	153,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.

The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

FLOOR SCALES, PALLET SCALES, DRIVE-THROUGH SCALES

From incoming goods to production and shipping – our modern, powerful floor scales can be used everywhere and intuitively. The many clever functions will assist you in carrying out processes effectively and economically, all while meeting high requirements and saving resources.

In our floor scales product category, we offer our customers a carefully coordinated product range in the weighing range from 300 to 6,000 kg. Choose between affordable entry level models, practical built-in solutions or Premium products made from stainless steel and verified. Our floor scales stand out due to their durable industrial quality as well as reliable protection against dust and water splashes.

Industrial scales for heavy loads

When weighing large containers and heavy goods, scales must overcome different challenges. As well as correspondingly large weighing ranges, a high level of stability and sturdiness is necessary, in order to withstand the maximum loads acting on the weighing plate. Our floor scales are perfectly suited for this task, for example through generously sized struts and material thicknesses, mobile stored adjustable feet for the protection of the load cells, IP67 protection against dust and water splashes or a convenient disconnect device between the display device and platform. The latter means that you can install a verified scale in a packing and dispatch bench or a pit frame for barrier-free access at a later date. Large LCD displays make it easier to read the display even if the angle of view is not ideal. We also have pallet scales, weighing beams and drive-through scales available for versatile use.

Our recommendation: High-resolution KERN BIC floor scale with $2 \times 3,000$ [d] at the best price-to-performance ratio.

Easy integration through digital interfaces

Thanks to interfaces such as RS-232, USB, Bluetooth, WiFi, Ethernet the scale can easily be connected to existing networks. Data exchange between scale and PC or printer is easy and reliable. The standardised KCP interface (Kern Communication Protocol) takes over the searching and remote control of the scale using external control devices or computers. KCP enables you to recall and control the relevant parameters and device functions and is also compatible with the MT-SICS protocol in most cases.

Our recommendation: High-resolution multi-range pallet scale KERN UID with EC type approval [M] and various data interfaces.

The KERN calibration and verification service

In order to fulfil quality requirements in accordance with DIN EN ISO 9000ff and other standards, we can offer our customers DAkkS calibration. Calibration ensures correct, usable weighing results and makes the floor scale into a reliable measuring and testing instrument. When calibrating, deviations in the display will be identified and documented. The main points to remember are: DAkkS calibration is always sensible, when checking equipment is to be used in a QM process. While calibration is not legally regulated, verification is mandatory in different applications for example:

- In commercial trade, if the price of goods are determined by weighing results.
- In the production of pre-packaged goods
- In the pharmaceutical industry
- For official purposes.

Our recommendation: BID floor scale with EC type approval [M] and the best price-to-performance ratio – now also as a high-resolution multi-range balance.

Individual solutions for maximum efficiency

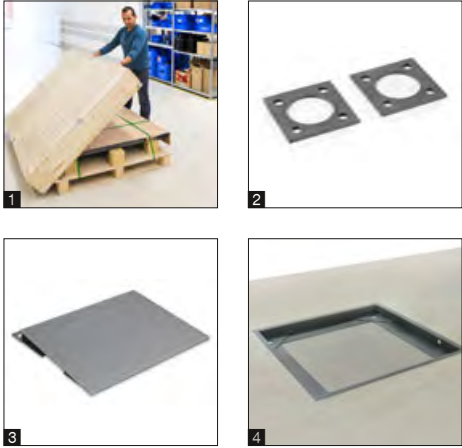
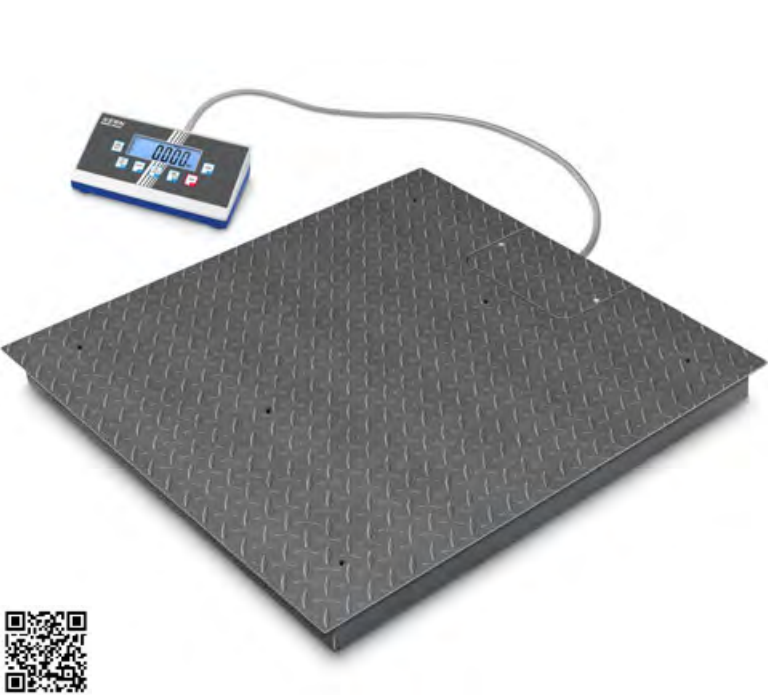
The weighing ranges of bench counting scales are often not sufficient to count large quantities, units or items on pallets. This is where high-performance counting systems come into their own, as these combine a high-precision reference scale with a high-capacity bulk scale, such as for example a floor scale, pallet scale or drive-through scale.

If you have special requirements, you can also configure your ideal scale easily and quickly so that it meets your needs. We will put your weighing combination together for you, using the components you have selected and including verification. Please contact your personal customer advisor for further information!

Quick-Finder Floor Scales/Pallet Scales/Drive-through Scales

Readability	Weighing capacity [Max]	Weighing plate W×D	Model	Price excl. of VAT ex works €	Page	         											
[d] g	kg	mm	KERN			For an explanation on the pictos, see the front flap											
50 100	300 600	1000×1000×108	BID 600K-1DS	1220,-	118												
50 100	300 600	1200×1500×108	BID 600K-1D	1650,-	118												
100 200	300 600	1000×1000×108	BID 600K-1DSM	1220,-	118												
100 200	300 600	1195×840×110	UID 600K-1DM	1280,-	125												
100 200	300 600	1200×1500×108	BIC 600K-1	1340,-	117												
100 200	300 600	1200×1500×108	BID 600K-1DM	1650,-	118												
100 200	300 600	1000×1000×108	BIC 600K-1S	920,-	117												
100	300	1000×1000×40	NIB 300K-1	870,-	128												
100 200	600 1500	1000×1000×108	BID 1T-4DS	1250,-	118												
100 200	600 1500	1200×1500×108	BID 1T-4D	1650,-	118												
200 500	600 1500	1000×1000×108	BID 1T-4DSM	1250,-	118												
200 500	600 1500	1190×840×110	UID 1500K-1DM	1260,-	125												
200 500	600 1500	1200×1500×108	BIC 1T-4	1300,-	117												
200 500	600 1500	1200×1500×108	BID 1T-4DM	1650,-	118												
200 500	600 1500	1000×1000×108	BIC 1T-4S	920,-	117												
200	600	870×120×84	UFA 600K-1S	1140,-	123												
200	600	1000×1000×108	BID 600K-1SM	1220,-	118												
200	600	1195×840×110	UID 600K-1M	1220,-	125												
200	600	1361×840×80	UFC 600K-1M	1250,-	126												
200	600	1200×1500×108	BID 600K-1M	1600,-	118												
200	600	1600×1220×95	NXC 600K-1M	3890,-	130												
200	600	1361×840×80	UXC 600K-1M	1870,-	127												
200	600	1000×1000×85	BFC 600K-1SM	1420,-	120												
200	600	1000×1000×85	BXC 600K-1SM	3020,-	122												
200	600	1500×1250×85	BFC 600K-1M	1960,-	120												
200	600	1600×1220×95	NFC 600K-1M	1910,-	129												
200	600	1800×1420×95	NFC 600K-1LM	2220,-	129												
200	600	1000×1000×40	NIB 600K-2	870,-	128												
200	600	1195×840×110	UIB 600K-1	990,-	124												
200 500	1500 3000	1200×1500×108	BID 3T-3D	1650,-	118												
200 500	1500 3000	1500×1500×108	BID 3T-3DL	1900,-	118												
500 1000	1500 3000	1190×840×110	UID 3000K-ODM	1260,-	125												
500 1000	1500 3000	1200×1500×108	BIC 3T-3	1300,-	117												
500 1000	1500 3000	1500×1500×108	BIC 3T-3L	1600,-	117												
500 1000	1500 3000	1200×1500×108	BID 3T-3DM	1650,-	118												
500 1000	1500 3000	1500×1500×108	BID 3T-3DLM	1900,-	118												
500	1500	1000×1000×108	BID 1T-4SM	1220,-	118												
500	1500	1190×840×110	UID 1500K-1M	1220,-	125												
500	1500	1270×170×85	UFA 1.5T0.5	1240,-	123												
500	1500	1361×840×80	UFC 1.5T-4M	1270,-	126												
500	1500	1200×1000×108	BID 1T-4EM	1300,-	118												
500	1500	1200×1500×108	BID 1T-4M	1600,-	118												
500	1500	1600×1220×95	NXC 1.5T-4M	3940,-	130												
500	1500	1361×840×80	UXC 1.5T-4M	1890,-	127												
500	1500	1500×1500×108	BID 1T-4LM	1880,-	118												
500	1500	1000×1000×85	BFC 1.5T-4SM	1420,-	120												
500	1500	1000×1000×85	BXC 1.5T-4SM	3020,-	122												
500	1500	1500×1250×85	BFC 1.5T-4M	1960,-	120												
500	1500	1500×1250×85	BXC 1.5T-4M	3840,-	122												
500	1500	1600×1220×95	NFC 1.5T-4M	1910,-	129												
500	1500	1800×1420×95	NFC 1.5T-4LM	2220,-	129												
500	1500	1195×840×110	UIB 1.5T-4	990,-	124												
1000	3000	1270×170×85	UFA 3T1	1240,-	123												
1000	3000	1195×840×110	UID 3000K-OM	1250,-	125												
1000	3000	2000×120×90	UFA 3T-3L	1570,-	123												
1000	3000	1200×1500×108	BID 3T-3M	1600,-	118												
1000	3000	1500×1500×108	BID 3T-3LM	1880,-	118												
1000	3000	1500×1250×85	BFC 3T-3M	1960,-	120												
1000	3000	1500×1250×85	BXC 3T-3M	3990,-	122												
1000	3000	1500×1500×85	BFC 3T-3LM	2200,-	120												
1000	3000	1195×840×110	UIB 3T-3	990,-	124												
2000	6000	1200×160×115	UFA 6T-3	1610,-	123												
2000	6000	1500×1500×123	BFC 6T-3M	2480,-	120												
2000	6000	2000×160×115	UFA 6T-3L	2120,-	123												

● Standard ○ Option



High-resolution floor scale with 2×3000 [d] and the best price-to-performance ratio

Features

- Weighing bridge out of anti-slip corrugated steel, 4 load cells, alloy steel, silicone-coated, IP67
- Welded platform with screw holes to lift the scale for easy cleaning
- Easy levelling of the weighing bridge as well as access to the junction box from above
- Simple and convenient 4-key operation
- Wall mount for display device, standard
- 1 Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation

Technical data

- Large LCD display, digit height 25 mm
- Weighing platform dimensions, steel, powder-coated
 - A W×D×H 1000×1000×108 mm
 - B W×D×H 1200×1500×108 mm
 - C W×D×H 1500×1500×108 mm
- Dimensions of display device W×D×H 235×114×51 mm
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 60 h
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover over the display device, scope of delivery 5 items, KERN EOB-A04BS05, € 44,-
- 2 Pair of base plates to fix the weighing bridge to the floor, KERN BIC-A07, € 44,-
- 3 Ascending ramp, steel, powder-coated, for models with weighing plate size
 - A 1000×1000×108 mm, KERN BIC-A01, € 425,-
 - B 1200×1000×108 mm, KERN BIC-A02, € 530,-
 - C 1500×1000×108 mm, KERN BIC-A03, € 600,-
- 4 Stable pit frame, steel, powder-coated, for models with weighing plate size
 - A 1088×1088×110 mm, KERN BIC-A04, € 350,-
 - B 1288×1588×110 mm, KERN BIC-A05, € 460,-
 - C 1588×1588×110 mm, KERN BIC-A06, € 490,-

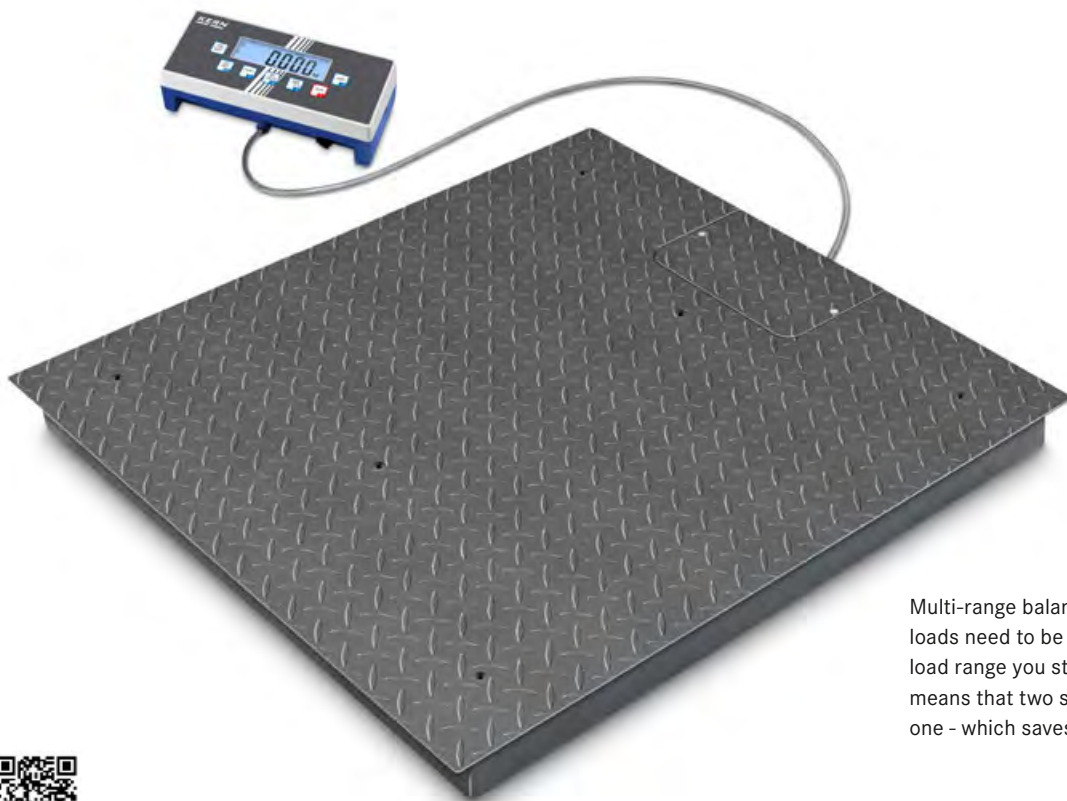
STANDARD

OPTION

Model	Weighing capacity	Readability	Weighing plate	Net weight approx.	Price excl. of VAT ex works €	Options	
						DAkkS Calibr. Certificate	
	[Max] kg	[d] kg		kg		DAkkS KERN	€
KERN							
BIC 600K-1S	300 600	0,1 0,2	A	70	920,-	963-130	215,-
BIC 600K-1	300 600	0,1 0,2	B	150	1340,-	963-130	215,-
BIC 1T-4S	600 1500	0,2 0,5	A	70	920,-	963-130	215,-
BIC 1T-4	600 1500	0,2 0,5	B	150	1300,-	963-130	215,-
BIC 3T-3	1500 3000	0,5 1	B	150	1300,-	963-132	580,-
BIC 3T-3L	1500 3000	0,5 1	C	155	1600,-	963-132	580,-

Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs



Multi-range balances, ideal, high maximum loads need to be weighed, but in the lower load range you still need high resolution. This means that two scales can be replaced with one - which saves space and money!

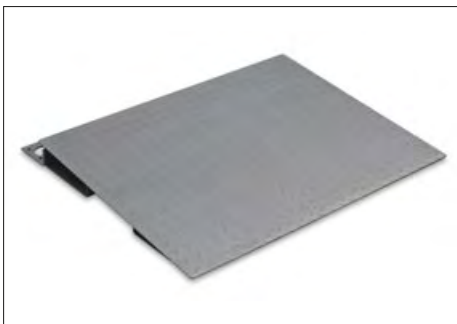


Multi-range floor scale with the best price-to-performance ratio, verification optional

11



Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation



1 Access ramp incl. pair of base plates to facilitate access of e.g. wire cage trolleys, shelf trolleys, container trolleys, storage trolleys, sack trucks, transpallets, mobile containers, containers refuse etc.



2 Verification plug, for verified balances this enables you to separate the display device and platform without affecting the verification, e.g. for installing the scale in a packing and dispatch table, pit frame etc. at a later date. Please order this at the same time as you purchase your scale

3 In addition to the RS-232 data interface, which is integrated as standard, only one other data interface can be installed and operated

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Features

- KERN BID 1T-4EM: Compact special size, especially for weighing europallets
- Display device: Plastic, protected against dust and water splashes IP65. for details see KERN KIB-TM
- Weighing bridge out of anti-slip corrugated steel, 4 load cells, alloy steel, silicone-coated, IP67
- Easy levelling of the weighing bridge as well as access to the junction box from above
- Totalising of weights and piece counts
- Thanks to interfaces such as RS-232 or USB, WiFi, Bluetooth, Ethernet (optional), the scale can easily be connected to existing networks. Data exchange between the scale, PC or printer
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers

Technical data

- Large LCD display, digit height 25 mm
- Weighing platform dimensions W×D×H, steel, powder-coated
 - A** 1000×1000×108 mm, **B** 1200×1000×108 mm
 - C** 1200×1500×108 mm, **D** 1500×1500×108 mm
- Dimensions of display device W×D×H 268×115×80 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN EOC-A01S05, **€ 55,-**
- Pair of base plates to fix the weighing bridge to the floor, KERN BIC-A07, **€ 44,-**
- **1** Ascending ramp, steel, powder-coated, for models with weighing plate size
 - A, B** 1000×1000×108 mm, KERN BIC-A01, **€ 425,-**
 - C** 1200×1000×108 mm, KERN BIC-A02, **€ 530,-**
 - D** 1500×1000×108 mm, KERN BIC-A03, **€ 600,-**
- Stable pit frame, Steel, powder-coated, to install the weighing bridge so you can drive straight on, for models with weighing plate size
 - A** 1088×1088×110 mm, KERN BIC-A04, **€ 350,-**
 - B** 1288×1088×110 mm, KERN BIC-A08, **€ 410,-**
 - C** 1288×1588×110 mm, KERN BIC-A05, **€ 460,-**
 - D** 1588×1588×110 mm, KERN BIC-A06, **€ 490,-**

- Benchtop stand incl. wall mount for display device, KERN EOC-A04, **€ 33,-**
- Internal rechargeable battery pack, operating time up to 43 h without backlight, charging time approx. 3 h, KERN KFB-A01, **€ 40,-**
- USB data interface, for transferring weighing to the PC, printer etc., must be ordered at purchase, KERN KIB-A03, **€ 120,-**
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, KERN KIB-A04, **€ 110,-**
- WiFi interface for wireless connection of the balance to networks and WiFi capable devices, such as tablets, laptops or smartphones, continuous data transfer, must be ordered at purchase, KERN KIB-A10, **€ 130,-**
- Ethernet data interface, to connect an IP-based Ethernet network, continuous data transfer, must be ordered at purchase, KERN KIB-A02, **€ 165,-**
- Signal lamp, including interface, for visual support of weighing with tolerance range, must be ordered at purchase, KERN KIB-A06, **€ 470,-**
- Alibi memory, for paperless archiving of the weighing results with ID no., gross/net/tare value, date and time, must be ordered at purchase, KERN KIB-A13, **€ 164,-**
- **2** Verification plug, for verified balances this enables you to separate the display device and platform without affecting the verification, e.g. for installing the scale in a packing and dispatch table, pit frame etc. at a later date. Please order this at the same time as you purchase your scale, KERN KIB-A12, **€ 164,-**

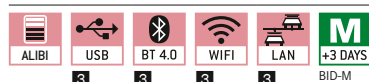
STANDARD



OPTION



FACTORY

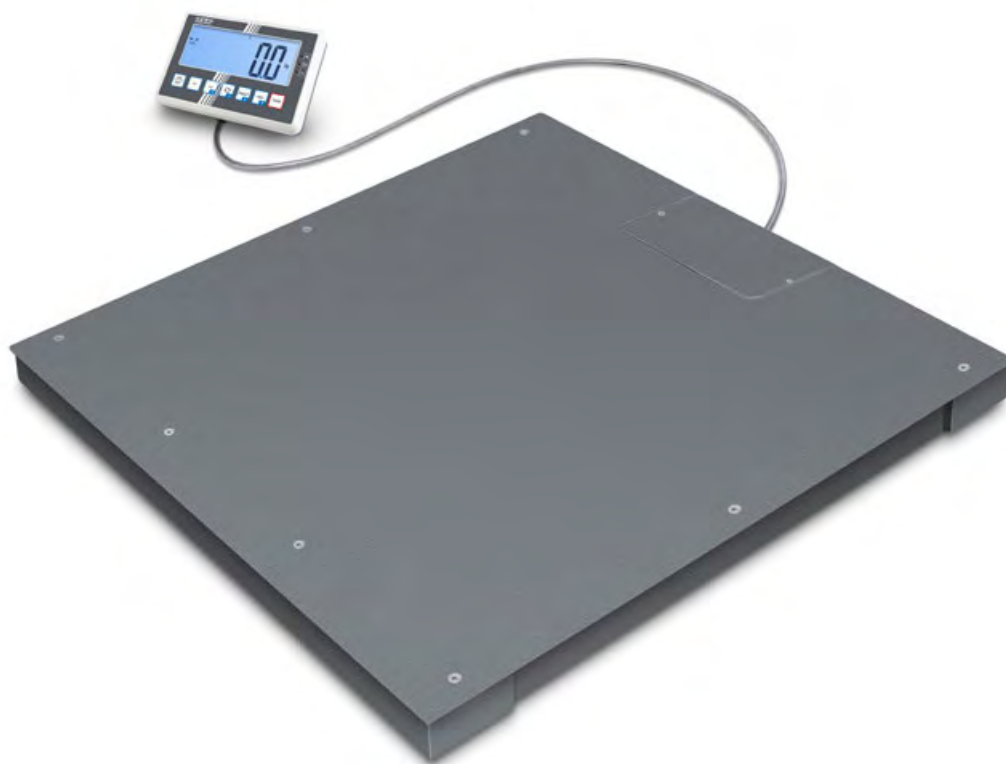


Model	Weighing capacity [Max] kg	Readability = Verification value [d] = [e] kg	Minimal load [Min] kg	Weighing plate	Net weight approx. kg	Price excl. of VAT ex works €	Options			
							Verification	DAkkS Calibr. Certificate		
							 KERN	€	DAkks KERN	€
KERN										
High-resolution versions with fine display										
BID 600K-1DS	300 600	0,05 0,1	-	A	75	1220,-	-	-	963-130	215,-
BID 600K-1D	300 600	0,05 0,1	-	C	150	1650,-	-	-	963-130	215,-
BID 1T-4DS	600 1500	0,1 0,2	-	A	75	1250,-	-	-	963-130	215,-
BID 1T-4D	600 1500	0,1 0,2	-	C	150	1650,-	-	-	963-130	215,-
BID 3T-3D	1500 3000	0,2 0,5	-	C	150	1650,-	-	-	963-132	580,-
BID 3T-3DL	1500 3000	0,2 0,5	-	D	155	1900,-	-	-	963-132	580,-
Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range										
BID 600K-1DSM	300 600	0,1 0,2	2 4	A	75	1220,-	965-230	158,-	963-130	215,-
BID 600K-1DM	300 600	0,1 0,2	2 4	C	150	1650,-	965-230	158,-	963-130	215,-
BID 1T-4DSM	600 1500	0,2 0,5	4 10	A	75	1250,-	965-230	158,-	963-130	215,-
BID 1T-4DM	600 1500	0,2 0,5	4 10	C	150	1650,-	965-230	158,-	963-130	215,-
BID 3T-3DM	1500 3000	0,5 1	10 20	C	150	1650,-	965-232	235,-	963-132	580,-
BID 3T-3DLM	1500 3000	0,5 1	10 20	D	155	1900,-	965-232	235,-	963-132	580,-
BID 600K-1SM	600	0,2	4	A	75	1220,-	965-230	158,-	963-130	215,-
BID 600K-1M	600	0,2	4	C	150	1600,-	965-230	158,-	963-130	215,-
BID 1T-4SM	1500	0,5	10	A	70	1220,-	965-230	158,-	963-130	215,-
BID 1T-4EM	1500	0,5	10	B	85	1300,-	965-230	158,-	963-130	215,-
BID 1T-4M	1500	0,5	10	C	150	1600,-	965-230	158,-	963-130	215,-
BID 1T-4LM	1500	0,5	10	D	155	1880,-	965-230	158,-	963-130	215,-
BID 3T-3M	3000	1	20	C	150	1600,-	965-232	235,-	963-132	580,-
BID 3T-3LM	3000	1	20	D	155	1880,-	965-232	235,-	963-132	580,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.

The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

Note: For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame



Floor Scale with screwed-on weighing plate (IP67), verification optional

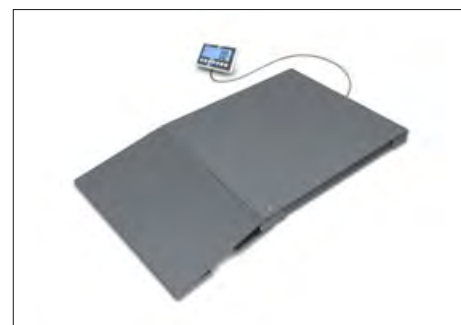
11



1 Weighing plate can be unscrewed - The weighing plate can be conveniently unscrewed for maintenance or cleaning purposes (Exception: BFC 6T-3M)



Easy levelling of the weighing bridge as well as access to the junction box from above



2 Ascending ramp, lacquered steel, see *Accessories*

Features

- **1** Weighing plate: smooth surface, screwed on from the top, so it easy to remove, hygienic and easy to clean (Exception: KERN BFC 6T-3M)
- KERN BFC 6T-3M: Weighing plate welded, steel chequer plate
- 4 silicone-coated steel load cells, IP67 dust and spray protection
- Display device: for details see KERN KFC-TM
- IoT line: networkable balances with user-friendly concept of operation, for details see KERN KFC-TM
- With Real Time Clock as standard: Enables you to log the weighing results with accurate time information. Even if the power supply is interrupted, the balance can continue to work with the correct time
- Benchtop stand incl. wall mount for display device as standard
- Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 48 mm
- Weighing platform dimensions W×D×H, steel, powder-coated
 - A** 1000×1000×85 mm
 - B** 1500×1250×85 mm
 - C** 1500×1500×85 mm
 - D** 1500×1500×123 mm
- Dimensions of display device W×D×H 220×145×65 mm
- Permissible ambient temperature -10 °C/40 °C



Accessories

- Protective working cover, scope of delivery 5 items, KERN YBA-A18S05, **€ 52,-**
- **3** Stand to elevate display device, height of stand approx. 1040 mm, KERN BFS-A07, **€ 170,-**
- Pair of base plates to fix the weighing bridge to the floor, for models with weighing plate size
 - A - C** KERN BFS-A06N, **€ 80,-**
 - D** KERN BFS-A10, **€ 67,-**
- **2** Ascending ramp, steel, lacquered, for models with weighing plate size
 - A** 1000×740×90 mm, KERN BFS-A01N, **€ 405,-**
 - B** 1250×740×90 mm, KERN BFS-A02N, **€ 480,-**
 - C** 1500×740×90 mm, KERN BFS-A09N, **€ 630,-**
 - D** 1500×750×120 mm, KERN BFS-A11, **€ 680,-**
- **4** Stable pit frame, steel, lacquered, for models with weighing plate size
 - A** 1090×1090×90 mm, KERN BFS-A03N, **€ 380,-**
 - B** 1590×1340×90 mm, KERN BFS-A04N, **€ 450,-**
 - C** 1590×1590×90 mm, KERN BFS-A08N, **€ 500,-**
- Internal rechargeable battery pack, operating time up to 22 h without backlight, charging time approx. 8 h, KERN YKR-01, **€ 35,-**

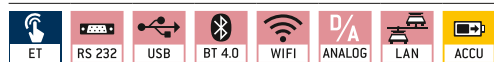


- RS-232 interface adapter, KERN KUP-01, **€ 60,-**
- USB interface adapter, KERN KUP-03, **€ 75,-**
- Ethernet interface adapter, KERN KUP-04, **€ 115,-**
- WiFi interface adapter, KERN KUP-05, **€ 75,-**
- Bluetooth interface adapter, KERN KUP-06, **€ 99,-**
- Analogue module, KERN KUP-08, **€ 170,-**
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13, **€ 75,-**
- Memory module (alibi memory), KERN YMM-04, **€ 80,-**
- Signal lamp for visual support of weighing with tolerance range, KERN CFS-A03, **€ 310,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



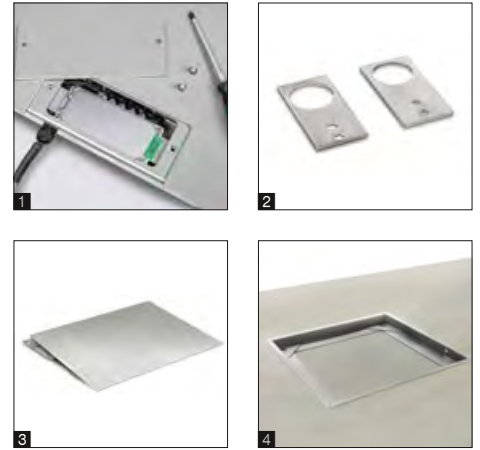
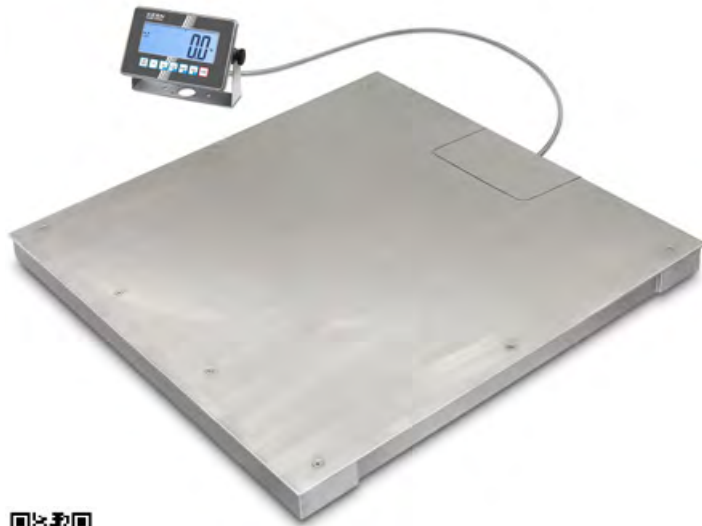
! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Model	Weighing capacity [Max] kg	Readability = Verification value [d] = [e] kg	Minimal load [Min] kg	Cable length of display device approx. m	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
								Verification	DAkkS Calibr. Certificate		
								KERN	€	DAkkS KERN	€
BFC 600K-1SM	600	0,2	4	5	105	A	1420,-	965-230	158,-	963-130	215,-
BFC 600K-1M	600	0,2	4	5	140	B	1960,-	965-230	158,-	963-130	215,-
BFC 1.5T-4SM	1500	0,5	10	5	105	A	1420,-	965-230	158,-	963-130	215,-
BFC 1.5T-4M	1500	0,5	10	5	140	B	1960,-	965-230	158,-	963-130	215,-
BFC 3T-3M	3000	1	20	5	140	B	1960,-	965-232	235,-	963-132	580,-
BFC 3T-3LM	3000	1	20	5	155	C	2200,-	965-232	235,-	963-132	580,-
BFC 6T-3M	6000	2	40	5	230	D	2480,-	965-232	235,-	963-132	580,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.

The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

Note: For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame



Accessories

- Stand to elevate display device, height of stand approx. 1040 mm, KERN BFS-A07, **€ 170,-**
- **2** Pair of base plates to fix the weighing bridge to the floor, KERN BFN-A03, **€ 95,-**
- **3** Ascending ramp, Stainless steel, for models with weighing plate size
 - A** 1000×740×90 mm, KERN BFN-A05, **€ 1350,-**
 - B** 1250×760×85 mm, KERN BFN-A01, **€ 1530,-**
- **4** Stable pit frame, Stainless steel, for models with weighing plate size
 - A** 1090×1090×90 mm, KERN BFN-A06, **€ 880,-**
 - B** 1590×1340×90 mm, KERN BFN-A02, **€ 1150,-**
- Internal rechargeable battery pack, operating time up to 22 h without backlight, charging time approx. 8 h, must be ordered at purchase, KERN YKR-01, **€ 35,-**
- Memory module with real time clock (alibi memory), KERN YMM-06, **€ 160,-**
- Internal data interface RS-232, interface cable included, KERN KUM-01, **€ 120,-**
- Internal data interface USB, interface cable included, KERN KUM-03, **€ 120,-**
- Internal data interface Ethernet, interface cable included, KERN KUM-04, **€ 165,-**
- Internal data interface WiFi, KERN KUM-05, **€ 95,-**
- Internal data interface Bluetooth, KERN KUM-06, **€ 135,-**
- Analogue module, KERN KUM-08, **€ 145,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

Floor scale with screwed-on weighing plate (IP67) and stainless steel display device (IP68), verification optional

Features

- Tough industry standard suitable for use in harsh industrial applications
- **1** Weighing plate screwed on from the top with stainless steel screws, so it's easy to remove, hygienic and easy to clean
- Weighing bridge: stainless steel, extremely resistant to bending due to material thickness, 4 hermetically welded stainless steel load cells, IP68 dust and spray protection
- Easy levelling of the weighing bridge as well as access to the junction box from above
- Display device: stainless steel, protection against dust and water splashes IP68, for details see KERN KXC-TM
- IoT line: networkable balances with user-friendly concept of operation
- The exchange of data and control commands is optional using up to four interfaces to suit

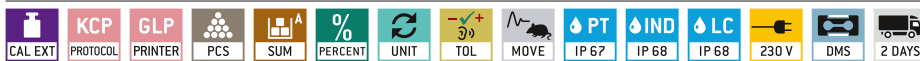
individual requirements: two wired connections and two wireless connections, for details see KERN KXC-TM

- Available as an option with alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further
- Wall mount for display device, standard

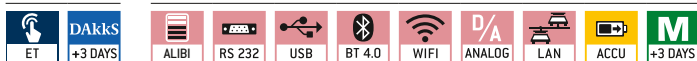
Technical data

- Large backlit LCD display, digit height 48 mm
- Weighing platform dimensions W×D×H, stainless steel
 - A** 1000×1000×85 mm
 - B** 1500×1250×85 mm
- Dimensions of display device W×D×H 232×150×80 mm
- Permissible ambient temperature -10 °C/40 °C

STANDARD



OPTION



! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Model	Weighing capacity [Max] kg	Readability = Verification value [d] = [e] kg	Minimal load [Min] kg	Cable length of display device approx. m	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
								Verification	€	DAkkS Calibr. Certificate	€
KERN								M KERN		DAkkS KERN	
BXC 600K-1SM	600	0,2	4	5	85	A	3020,-	965-230	158,-	963-130	215,-
BXC 1.5T-4SM	1500	0,5	10	5	85	A	3020,-	965-230	158,-	963-130	215,-
BXC 1.5T-4M	1500	0,5	10	5	120	B	3840,-	965-230	158,-	963-130	215,-
BXC 3T-3M	3000	1	20	5	150	B	3990,-	965-232	235,-	963-132	580,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.

The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

Note: For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame



Highly versatile weighing beams (IP67) for large loads to 6 t

Features

- Flexible solution for weighing large, bulky or long items, thanks to freely positionable weighing beams and a 5 m (!) long connecting cable between the beams
- Thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- Weighing beams: steel, painted, 4 silicone-coated aluminium load cells, protection against dust and water splashes IP67
- **1** Sturdy handles for transporting the weighing beams
- **1** KERN UFA-L: Each weighing beam has a roller and handle for easy transport of the scale, see larger picture
- Display device: for details see KERN KFB-TM
- Benchtop stand incl. wall mount for display device as standard
- Totalising of weights and piece counts
- Protective working cover included with delivery

- KERN UFA-S: Model with short weighing beams, ideal for weighing compact items or animals in transport boxes
- Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of display device W×D×H 250×160×65 mm
- Cable length of display device approx. 5 m
- Connection cable approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover over the display device, scope of delivery 5 items, KERN KFB-A02S05, **€ 52,-**
- **2** Stand to elevate display device, height of stand approx. 1040 mm, KERN BFS-A07, **€ 170,-**



- Internal rechargeable battery pack, operating time up to 35 h without backlight, charging time approx. 10 h, KERN KFB-A01, **€ 40,-**
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase. When installing the Bluetooth data interface, the RS-232 data interface can no longer be used, KERN KFB-A03, **€ 160,-**
- Analogue module, must be ordered at purchase, not possible in combination with signal lamp or rechargeable battery pack
0-10 V: KERN KFB-A04, **€ 170,-**
4-20 mA: KERN KFB-A05, **€ 170,-**
- **3** Signal lamp for visual support of weighing with tolerance range, not possible in combination with analogue module, KERN CFS-A03, **€ 310,-**
- **4** Large display with superior display size KERN YKD-A02, **€ 310,-**
- Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, **€ 38,-**
- Cable with special length 15 m, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03, **€ 195,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max] kg	Readability [d] kg	Dimensions Weighing beam W×D×H mm	Net weight approx. kg	Price excl. of VAT ex works €	Options	
						DAKKS KERN	Calibr. Certificate €
KERN							
UFA 600K-1S	600	0,2	870×120×84	36	1140,-	963-130	215,-
UFA 1.5T0.5	1500	0,5	1270×170×85	40	1240,-	963-130	215,-
UFA 3T1	3000	1	1270×170×85	38	1240,-	963-132	580,-
UFA 3T-3L	3000	1	2000×120×90	60	1570,-	963-132	580,-
UFA 6T-3	6000	2	1200×160×115	90	1610,-	963-132	580,-
UFA 6T-3L	6000	2	2000×160×115	130	2120,-	963-132	580,-



Pallet scale with steel load support (IP67) and the best price-to-performance ratio

Features

- Thanks to battery operation, compact, light-weight construction, it is suitable for the use in several locations
- Load support: steel, powder coated, 4 silicone-coated aluminium load cells, protection against dust and water splashes IP67
- 1 The scale can be easily transported using rollers and a handle and does not require much storage space
- Protective working cover included with delivery
- 2 Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation

Technical data

- Large LCD display, digit height 25 mm
- Dimensions of display device W×D×H 235×114×51 mm
- Cable length of display device approx. 5 m
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 60 h
- Net weight approx. 55 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover over the display device, scope of delivery 5 items, KERN EOB-A04BS05, € 44,-
- Stand to elevate display device, height of stand approx. 1000 mm, KERN EOB-A02B, € 112,-

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! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD

CAL EXT

UNIT

MOVE

LC IP 67

BATT

MULTI

DMS

2 DAYS

OPTION

DAkKS +3 DAYS

Model	Weighing capacity	Readability	Price excl. of VAT ex works €	Options	
				DAkKS Calibr. Certificate	
	[Max] kg	[d] kg		DAkKS KERN	€
KERN					
UIB 600K-1	600	0,2	990,-	963-130	215,-
UIB 1.5T-4	1500	0,5	990,-	963-130	215,-
UIB 3T-3	3000	1	990,-	963-132	580,-



High-resolution multi-range pallet scale with a wide range of interfaces, verification optional

Features

- Ideal, when high maximum loads need to be weighed, but in the lower load range you still need high resolution. This means that two balances can be replaced with one
- High mobility thanks to rechargeable battery operation (optional)
- Display device: Protection against dust and water splashes IP65
- Load support: steel, powder coated, 4 load cells, alloy steel, silicone-coated, protection against dust and water splashes IP67
- The scale can be easily transported using rollers and a handle and does not require much storage space
- Totalising of weights and piece counts

- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- Thanks to interfaces such as RS-232 or USB, WiFi, Bluetooth, Ethernet (optional), the scale can easily be connected to existing networks. Data exchange between the scale, PC or printer
- Protective working cover included with delivery

Technical data

- Large LCD display, digit height 25 mm
- Dimensions of display device W×D×H 268×115×80 mm
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN EOC-A01S05, **€ 55,-**
- Stand to elevate display device, height of stand approx. 1040 mm, KERN BFS-A07, **€ 170,-**
- Internal rechargeable battery pack, operating time up to 43 h without backlight, charging time approx. 3 h, KERN KFB-A01, **€ 40,-**
- USB data interface, for transferring weighing to the PC, printer etc., must be ordered at purchase, KERN KIB-A03, **€ 120,-**
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, KERN KIB-A04, **€ 110,-**
- WiFi interface for wireless connection of the balance to networks and WiFi capable devices, such as tablets, laptops or smartphones, continuous data transfer, must be ordered at purchase, KERN KIB-A10, **€ 130,-**
- Ethernet data interface, to connect an IP-based Ethernet network, continuous data transfer, must be ordered at purchase, KERN KIB-A02, **€ 165,-**
- Signal lamp, including interface, for visual support of weighing with tolerance range, must be ordered at purchase, KERN KIB-A06, **€ 470,-**
- Alibi memory, including USB interface for exporting weighing results to external data storage media, such as, for example, USB sticks, hard drives, etc., must be ordered at purchase, KERN KIB-A01, **€ 175,-**
- Verification plug, for verified balances this enables you to separate the display device and platform without affecting the verification, e.g. for installing the scale in a packing and dispatch table, pit frame etc. at a later date. Please order this at the same time as you purchase your scale, KERN KIB-A12, **€ 164,-**

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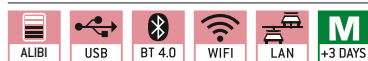
STANDARD



OPTION



FACTORY



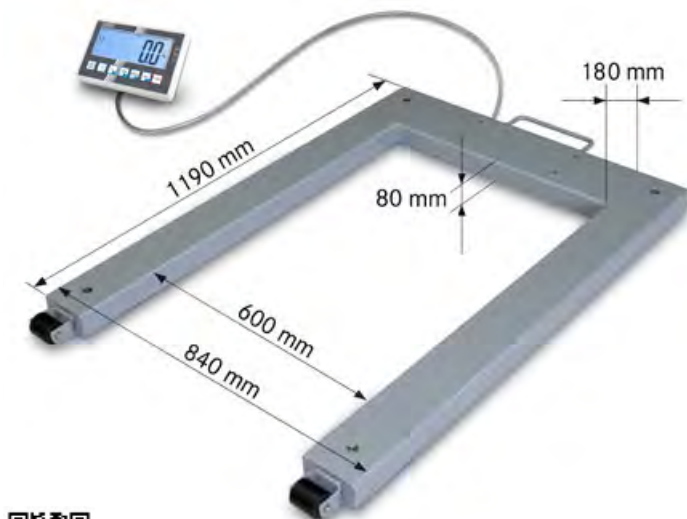
Model	Weighing capacity [Max] kg	Readability = Verification value [d] = [e] kg	Minimal load [Min] kg	Cable length of display device approx. m	Net weight approx. kg	Price excl. of VAT ex works €	Options			
							Verification	DAKKS	Calibr.	Certificate
KERN							MW KERN	€	DAKKS KERN	€
UID 600K-1M	600	0,2	4	5	44	1220,-	965-230	158,-	963-130	215,-
UID 1500K-1M	1500	0,5	10	5	44	1220,-	965-230	158,-	963-130	215,-
UID 3000K-0M	3000	1	20	5	44	1250,-	965-232	235,-	963-132	580,-
Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range										
UID 600K-1DM	300 600	0,1 0,2	2 4	5	44	1280,-	965-230	158,-	963-130	215,-
UID 1500K-1DM	600 1500	0,2 0,5	4 10	5	44	1260,-	965-230	158,-	963-130	215,-
UID 3000K-0DM	1500 3000	0,5 1	10 20	5	44	1260,-	965-232	235,-	963-132	580,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.

The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

1 Only one optional interface can be installed and used
! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

NEW



Pallet scale with steel load support (IP67), verification optional

Features

- Thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- Display device: for details see KERN KFC-TM
- IoT line: networkable balances with user-friendly concept of operation, for details see KERN KFC-TM
- With Real Time Clock as standard: Enables you to log the weighing results with accurate time information. Even if the power supply is interrupted, the balance can continue to work with the correct time

- Load support: steel, powder coated, 4 load cells, alloy steel, silicone-coated, protection against dust and water splashes IP67, Weighing bridge can also be delivered as component without the display device, for details see KERN KFU-V20
- Two wheels for easy transportation of the scale
- Weighing with tolerance range (checkweighing): A visual and audible signal assists the rapid checking of items on palettes
- Totalising of weights and piece counts
- Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 48 mm
- Dimensions of display device W×D×H 220×145×65 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN YBA-A18S05, € 52,-
- **1** Stand to elevate display device, height of stand approx. 1040 mm, KERN BFS-A07, € 170,-
- Internal rechargeable battery pack, operating time up to 22 h without backlight, charging time approx. 8 h, KERN YKR-01, € 35,-
- RS-232 interface adapter, KERN KUP-01, € 60,-
- USB interface adapter, KERN KUP-03, € 75,-
- Ethernet interface adapter, KERN KUP-04, € 115,-
- WiFi interface adapter, KERN KUP-05, € 75,-
- Bluetooth interface adapter, KERN KUP-06, € 99,-
- Analogue module, KERN KUP-08, € 170,-
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13, € 75,-
- Memory module (alibi memory), KERN YMM-04, € 80,-
- **2** Signal lamp for visual support of weighing with tolerance range, KERN CFS-A03, € 310,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max] kg	Readability = Verification value [d] = [e] kg	Minimal load [Min] kg	Net weight approx. kg	Price excl. of VAT ex works €	Options			
						Verification MUT KERN	€	DAkkS Calibr. Certificate KERN	€
KERN									
UFC 600K-1M	600	0,2	4	55	1250,-	965-230	158,-	963-130	215,-
UFC 1.5T-4M	1500	0,5	10	55	1270,-	965-230	158,-	963-130	215,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

NEW



Pallet scale with stainless steel load support (IP67) and stainless steel display device (IP68), verification optional

Features

- Thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations
- Load support: stainless steel, for details see KERN KFU-V30
- 4 silicone-coated steel load cells, IP67 dust and spray protection
- Ideal for the increased hygienic requirements in the food industries
- Your support in a HACCP-compliant quality system
- Display device: stainless steel, protection against dust and water splashes IP68, for details see KERN XKC-TM
- IoT line: networkable balances with user-friendly concept of operation
- The exchange of data and control commands is optional using up to four interfaces to suit individual requirements: two wired connections and two wireless connections, for details see KERN XKC-TM

- Available as an option with alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further
- Wall mount for display device, standard
- The scale can be easily transported using rollers and a handle and does not require much storage space
- Hold function: When the weighing conditions are unstable, a stable weight is calculated determining an average value
- Weighing with tolerance range (checkweighing): a visual and audible signal helps with portioning, dispensing or grading
- Summation of weight values

Technical data

- Large backlit LCD display, digit height 48 mm
- Dimensions of display device W×D×H 232×150×80 mm
- Permissible ambient temperature -10 °C/40 °C

Accessories

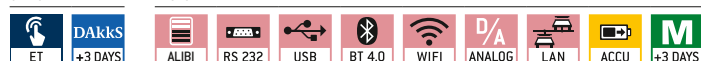
- **1** Stand to elevate display device, height of stand approx. 1040 mm, KERN BFS-A07, **€ 170,-**
- Internal rechargeable battery pack, operating time up to 22 h without backlight, charging time approx. 8 h, KERN YKR-01, **€ 35,-**
- Memory module with real time clock (alibi memory), KERN YMM-06, **€ 160,-**
- Internal data interface RS-232, interface cable included, KERN KUM-01, **€ 120,-**
- Internal data interface USB, interface cable included, KERN KUM-03, **€ 120,-**
- Internal data interface Ethernet, interface cable included, KERN KUM-04, **€ 165,-**
- Internal data interface WiFi, KERN KUM-05, **€ 95,-**
- Internal data interface Bluetooth, KERN KUM-06, **€ 135,-**
- Analogue module, KERN KUM-08, **€ 145,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION

FACTORY



Model	Weighing capacity [Max] kg	Readability = Verification value [d] = [e] kg	Minimal load [Min] kg	Cable length of display device approx. m	Net weight approx. kg	Price excl. of VAT ex works €	Options			
							Verification		DAKKS Calibr. Certificate	
KERN							M		DAKKS	
							KERN	€	KERN	€
UXC 600K-1M	600	0,2	4	5	55	1870,-	965-230	158,-	963-130	215,-
UXC 1.5T-4M	1500	0,5	10	5	50	1890,-	965-230	158,-	963-130	215,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.



Compact, robust drive-through scale – particularly mobile thanks to its carrying handle, rollers and lightweight construction

Features

- Drive-through scales enable accurate weighing of goods during a production process, without having to unload them. In this way the weighing process can be perfectly integrated into the workflow and there is no significant loss of time. Ideal for rapid weighing of e.g. wire cage trolleys, shelf trolleys, container trolleys, storage trolleys, sack trucks, transpallets, mobile containers, containers refuse etc.
- Low platform height and integrated access ramps on both sides facilitate access
- Weighing bridge: Steel, powder coated, 4 silicon-coated aluminium load cells with protection against dust and water splashes to IP67
- 1 Level indicator to level the balance precisely
- 2 The scale can be easily transported using rollers and a handle and does not require much storage space
- Wall mount for the display device, as standard, only for models without a stand
- Protective working cover included with delivery
- 3 Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation

Technical data

- Large LCD display, digit height 25 mm
- Platform height in the drive-through area: 40 mm
- Dimensions weighing surface, steel, lacquered WxD 800x800 mm (Without ramps)
- Overall dimensions WxDxH 1000x1000x80 mm
- Dimensions of display device WxDxH 235x114x51 mm
- Cable length of display device approx. 5 m
- Optional battery operation, 4x1.5 V AA not included in scope of delivery, operating time up to 60 h
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover over the display device, scope of delivery 5 items, KERN EOB-A04BS05, € 44,-
- Pair of base plates to fix the weighing bridge to the floor, KERN BIC-A07, € 44,-

11

STANDARD

CAL EXT

UNIT

MOVE

PT
IP 67

LC
IP 67

BATT

MULTI

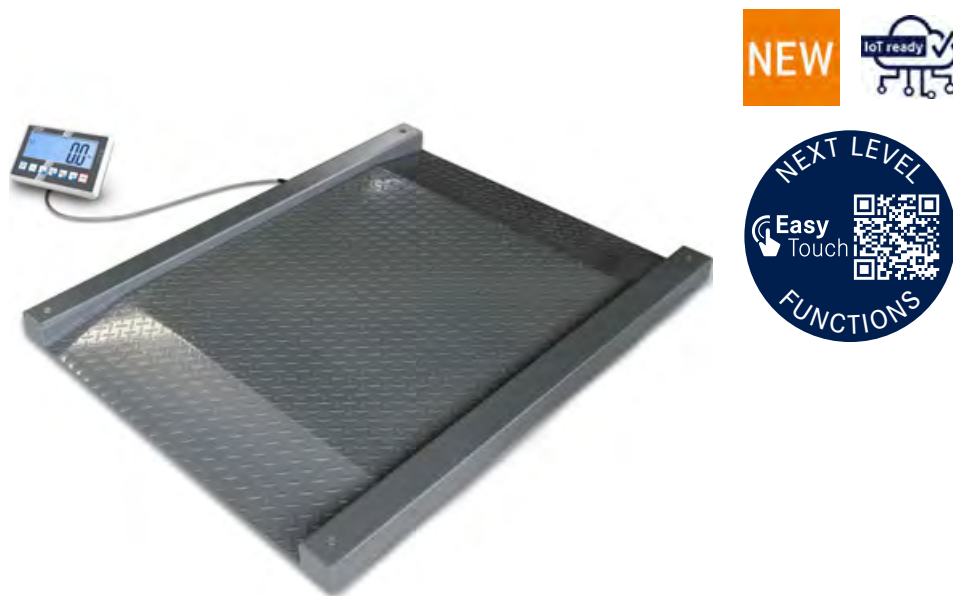
DMS

2 DAYS

OPTION

DAkKS
+3 DAYS

Model	Weighing capacity	Readability	Net weight approx. kg	Price excl. of VAT ex works €	Options	
					DAkKS Calibr. Certificate	
	[Max] kg	[d] kg			DAkKS KERN	€
KERN						
NIB 300K-1	300	0,1	40	870,-	963-129	153,-
NIB 600K-2	600	0,2	40	870,-	963-130	215,-



Networkable drive-through scale (IP67), verification optional

Features

- Drive-through scale for rapid weighing of e.g. wire cage trolleys, shelf trolleys, transpallets, mobile containers, containers refuse etc.
- Weighing bridge: out of anti-slip corrugated steel, 4 silicone-coated steel load cells, IP67 dust and spray protection
- Display device: for details see KERN KFC-TM
- IoT line: networkable balances with user-friendly concept of operation, for details see KERN KFC-TM
- With Real Time Clock as standard: Enables you to log the weighing results with accurate time information. Even if the power supply is interrupted, the balance can continue to work with the correct time
- Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 48 mm
- Dimensions weighing surface, steel, powder-coated
 - A** W×D 1000×1000 mm (Without ramps)
 - B** W×D 1200×1200 mm (Without ramps)
- Overall dimensions W×D×H
 - A** 1600×1220×95 mm
 - B** 1800×1420×95 mm
- Platform height in the drive-through area: 80 mm
- Dimensions of display device W×D×H 220×145×65 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C



Accessories

- Protective working cover, scope of delivery 5 items, KERN YBA-A18S05, **€ 52,-**
- Stand to elevate display device, height of stand approx. 1040 mm, KERN BFS-A07, **€ 170,-**
- Internal rechargeable battery pack, operating time up to 22 h without backlight, charging time approx. 8 h, KERN YKR-01, **€ 35,-**
- Pair of base plates to fix the weighing bridge to the floor, KERN BFS-A06N, **€ 80,-**
- RS-232 interface adapter, KERN KUP-01, **€ 60,-**
- USB interface adapter, KERN KUP-03, **€ 75,-**
- Ethernet interface adapter, KERN KUP-04, **€ 115,-**
- WiFi interface adapter, KERN KUP-05, **€ 75,-**
- Bluetooth interface adapter, KERN KUP-06, **€ 99,-**
- Analogue module, KERN KUP-08, **€ 170,-**
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13, **€ 75,-**
- Memory module (alibi memory), KERN YMM-04, **€ 80,-**
- **1** Signal lamp for visual support of weighing with tolerance range, KERN CFS-A03, **€ 310,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Model	Weighing capacity [Max] kg	Readability = Verification value [d] = [e] kg	Minimal load [Min] kg	Net weight approx. m	Weighing plate	Price excl. of VAT ex works €	Options			
							Verification	€	DAkkS Calibr. Certificate	€
KERN							M KERN		DAkkS KERN	
NFC 600K-1M	600	0,2	4	140	A	1910,-	965-230	158,-	963-130	215,-
NFC 600K-1LM	600	0,2	4	165	B	2220,-	965-230	158,-	963-130	215,-
NFC 1.5T-4M	1500	0,5	10	140	A	1910,-	965-230	158,-	963-130	215,-
NFC 1.5T-4LM	1500	0,5	10	155	B	2220,-	965-230	158,-	963-130	215,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.

The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

Note: For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame



Stainless steel drive-through scale (IP67) with stainless steel display device (IP68), verification optional

Features

- Robust stainless steel drive-through scale for rapid weighing of e.g. laundry carts, container trolleys, roller containers, etc.
- Ideal for the ever-increasing hygienic requirements in the food, pharmaceutical and chemical industries
- Your support in a HACCP-compliant quality system
- Weighing bridge: stainless steel, extremely resistant to bending due to material thickness, 4 welded stainless steel load cells, IP68 dust and spray protection
- Display device: stainless steel, protection against dust and water splashes IP68, for details see KERN KXC-TM
- IoT line: networkable balances with user-friendly concept of operation
- The exchange of data and control commands is optional using up to four interfaces to suit

individual requirements: two wired connections and two wireless connections, for details see KERN KXC-TM

- Available as an option with alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further
- Wall mount for display device, standard

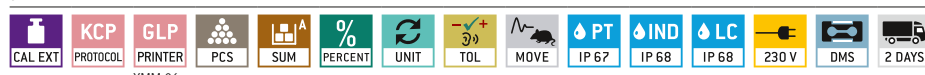
Technical data

- Large backlit LCD display, digit height 48 mm
- Dimensions weighing surface, stainless steel, W×D 1000×1000 mm (Without ramps)
- Platform height in the drive-through area: 80 mm
- Overall dimensions W×D×H 1600×1220×95 mm
- Dimensions of display device W×D×H 232×150×80 mm
- Permissible ambient temperature -10 °C/40 °C

Accessories

- ■ Stand to elevate display device, height of stand approx. 1040 mm, KERN BFS-A07, **€ 170,-**
- Pair of base plates to fix the weighing bridge to the floor, KERN BFN-A03, **€ 95,-**
- Internal rechargeable battery pack, operating time up to 22 h without backlight, charging time approx. 8 h, must be ordered at purchase, KERN YKR-01, **€ 35,-**
- Memory module with real time clock (alibi memory), KERN YMM-06, **€ 160,-**
- Internal data interface RS-232, interface cable included, KERN KUM-01, **€ 120,-**
- Internal data interface USB, interface cable included, KERN KUM-03, **€ 120,-**
- Internal data interface Ethernet, interface cable included, KERN KUM-04, **€ 165,-**
- Internal data interface WiFi, KERN KUM-05, **€ 95,-**
- Internal data interface Bluetooth, KERN KUM-06, **€ 135,-**
- Analogue module, KERN KUM-08, **€ 145,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Model	Weighing capacity [Max] kg	Readability = Verification value [d] = [e] kg	Minimal load [Min] kg	Cable length of display device approx. m	Net weight approx. kg	Price excl. of VAT ex works €	Options			
							Verification	DAKKS	Calibr.	Certificate
KERN							KERN	€	KERN	€
NXC 600K-1M	600	0,2	4	5	105	3890,-	965-230	158,-	963-130	215,-
NXC 1.5T-4M	1500	0,5	10	5	105	3940,-	965-230	158,-	963-130	215,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.

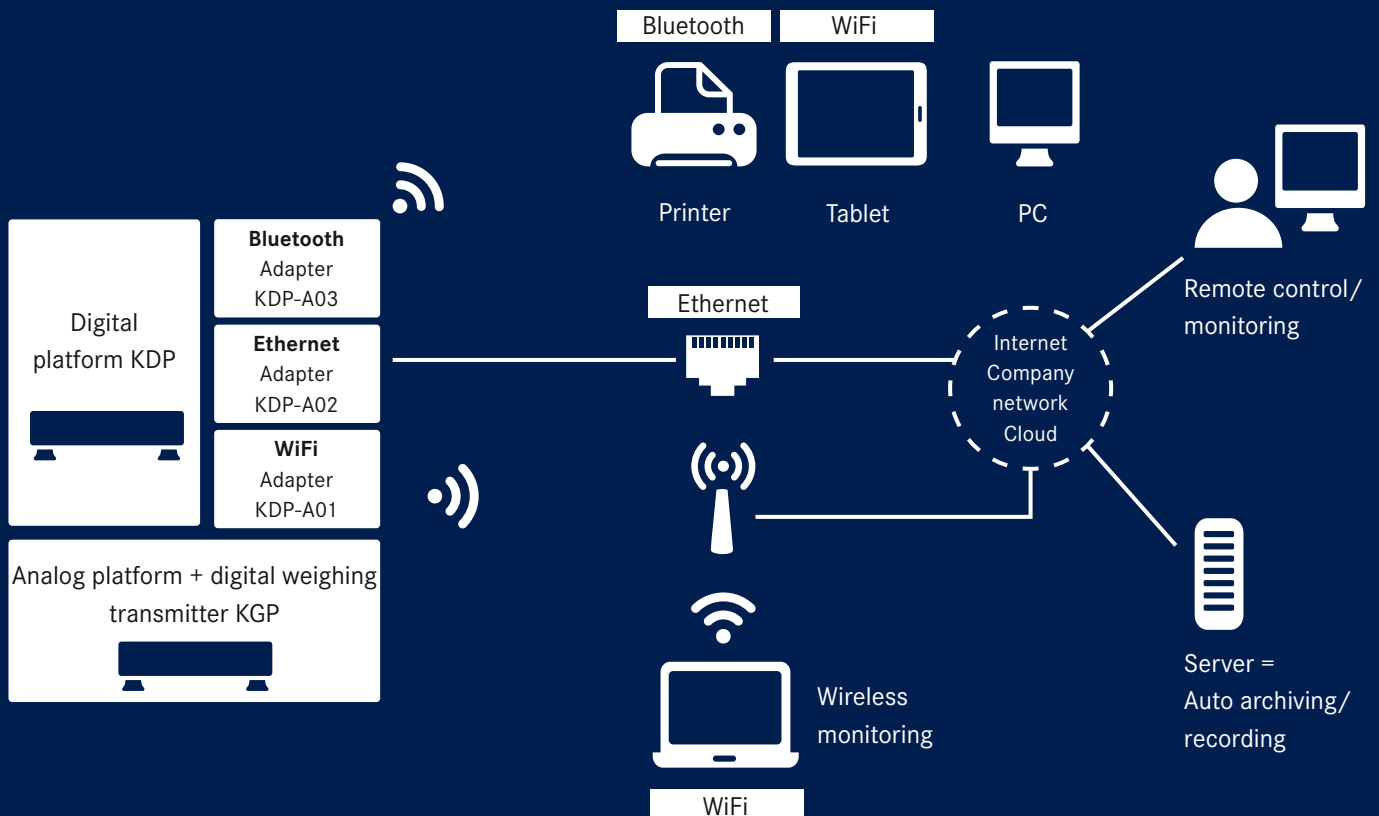
The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

Note: For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame

12



SYSTEM SOLUTIONS INDUSTRY 4.0, EASYTOUCH



We will help to combine industrial production with the latest information and communication technology, with the aim of improving quality, reducing costs and using time and resources more efficiently so that you are able to react to future requirements in a more flexible manner. You will benefit from our uniform data protocol combined with our BalanceConnection 4.0 data software, *see Software*.

The KERN team in our centre of expertise – Industry 4.0



Daniel Egeler

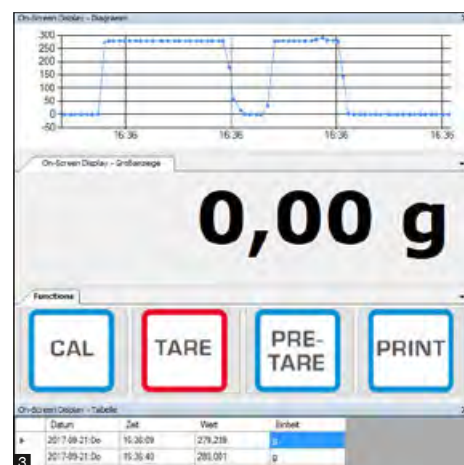


Maximilian Pfister



Ralf Schmiege

We are happy to inform and advise you
Tel. +49 7433 9933-324, etsales@kern-sohn.com



Robust industrial platform scale with digital weighing transmitter, ideal for varied range of applications for Industry 4.0

Features

- With this combination of platform **1** (KERN KFP V20 IP65) and digital weighing transmitter (KERN YKV-01) your weighing processes are ready for the requirements of Industry 4.0. Simply install the platform, connect the digital weighing transmitter to the network and start weighing
- For rapid transfer of weighing data to connected networks, computers, etc.
- USB and RS-232 data interface standard, power supply via USB interface
- Transfer formats are freely configurable
- Digital weighing transmitter with standard ethernet data interface on request

- Functions: Weighing, taring
- Internal resolution 16 million divisions
- Measuring frequency 10 Hz
- Easy configuration using the software supplied
- KERN YKV-01: Robust plastic die-cast housing
- **2** KERN YKV-01: Suitable for wall mounting and DIN track mount (optional)
- included with the delivery:
 - Industrial platform KERN KFP
 - Digital weighing transmitter KERN YKV-01
 - **2** DIN rail mounting bracket for KERN YKV
 - Configuration software for adjusting and managing the KERN KGP, enables the display and transfer of values, for example to a PC as well as conversion for different user programs such as SAP, Oracle etc.

Technical data

- Weighing plate material: stainless steel
- KERN YKV-01: Overall dimensions W×D×H 100×140×36 mm
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Bluetooth data interface, KERN YKV-A02, **€ 98,-**
- WiFi interface, KERN YKV-A01, **€ 98,-**
- Ethernet data interface on request
- **3** BalanceConnection software for flexible measured value recording or transmission, compatible with Microsoft® Excel, Access and other applications, Scope of supplies: Download link for 1 license, KERN SCD-4.0-DL, **€ 210,-**

STANDARD



OPTION

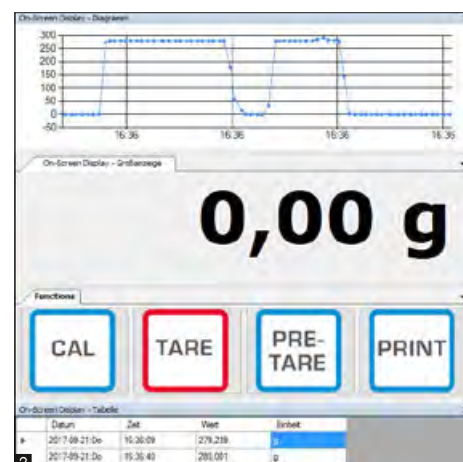


FACTORY



Model	Weighing capacity [Max]	Readability	Weighing platform W×D×H	Cable length	Net weight	Price excl. of VAT ex works €	Options DAKKS Calibr. Certificate
KERN	kg	[d] g	mm	approx. m	approx. kg		DAKKS KERN €
KGP 6K-4	6	0,2	230×230×106	3	6	440,-	963-128 124,-
KGP 6K-4L	6	0,2	300×240×109	3	10	460,-	963-128 124,-
KGP 10K-4	15	0,5	300×240×109	3	6	480,-	963-128 124,-
KGP 10K-4L	15	0,5	400×300×117	3	10	500,-	963-128 124,-
KGP 30K-3	30	1	300×240×109	3	6	460,-	963-128 124,-
KGP 30K-3L	30	1	400×300×117	3	10	520,-	963-128 124,-
KGP 60K-3	60	2	400×300×117	3	10	540,-	963-129 153,-
KGP 60K-3L	60	2	500×400×127	3	14	600,-	963-129 153,-
KGP 100K-3	150	5	500×400×127	3	14	600,-	963-129 153,-
KGP 100K-3L	150	5	650×500×139	3	22	820,-	963-129 153,-
KGP 300K-2L	300	10	650×500×139	3	22	870,-	963-129 153,-

1 ONLY WHILE STOCKS LAST



Modern digital weighing transmitter for the rapid recording of weighing data and forwarding it to the most varied output channels such as tablets, networks, SPS controllers, etc. – ideal for operating balances in systems or conveyors

Features

- Simply connect a weighing platform or measuring cell, integrate the digital weighing transmitter into the network and start weighing
- For rapid transfer of weighing data to connected networks, computers, etc.
- USB and RS-232 data interface standard, power supply via USB interface
- Transfer formats are freely configurable
- Functions: Weighing, taring
- Measuring frequency 10 Hz
- Easy configuration using the software supplied
- Robust plastic die-cast housing
- Suitable for wall mounting and DIN track mount
- Compatible with all KERN weighing platforms
- included with the delivery:
 - Digital weighing transmitter KERN YKV
 - USB cable incl. mains plug
 - DIN rail mounting bracket
 - Configuration software for adjusting and managing, enables the display and transfer of values, for example to a PC as well as conversion for different user programs such as SAP, Oracle etc.

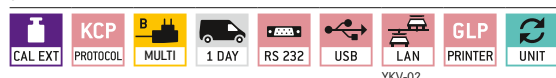
Technical data

- Overall dimensions W×D×H 100×140×36 mm
- Net weight approx. 0,35 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

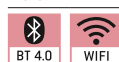
- Bluetooth data interface, KERN YKV-A02, € 98,-
- WiFi interface, KERN YKV-A01, € 98,-
- BalanceConnection software for flexible measured value recording or transmission, compatible with Microsoft® Excel, Access and other applications, Scope of supplies: Download link for 1 license, KERN SCD-4.0-DL, € 210,-

STANDARD



YKV-02

FACTORY



Model

Standard interfaces

Price
excl. of VAT
ex works
€

KERN

YKV-01	RS-232, USB	265,-
YKV-02	RS-232, USB, Ethernet	320,-



Compact display device (rail-mounted module) for installation in switch cabinets

Features

- Compact display unit for recording weighing data using strain gauge load cells
- It is particularly space-saving to install in switch cabinets
- Thanks to the many interface variants, the modules can be ideally integrated into existing infrastructures and systems
- The modules can be used either individually or as a Buslink system with a total of up to 332 DIN rail modules
- Configuration of the module conveniently via a connected PC with the suitable software (Download see Internet)
- Bright LED display for optical control and settings
- Time-saving G-Cal™ (Geographic Calibration) technology for fast and accurate calibration without weights conveniently over a network or the Internet worldwide
- Convenient communication via remote devices
- Backup and restore function via USB port

- Can handle various industrial protocols such as Ethernet IP, Modbus TCP, Modbus RTU, FINS, PROFIBUS DP and PROFINET (according to model)
- Extremely high measurement frequency possible, up to 1600 data records/second
- Internal resolution 24 Bit

Technical data

- 7 segment LED display, digit height 7,62 mm
- Dimensions W×D×H 120×101×23 mm
- Power supply 18-32 Vdc; 4 W max.
- Power supply load cell 5 Vdc
- Sensitivity 0,1 µV/d
- Adjustable nominal sensitivity 1; 1.5; 2; 2.5; 3 mV/V
- Input voltage unipolar @ 3 mV/V: -1 mV to + 16 mV
- Input voltage bipolar @ 3 mV/V: -16 mV to +16 mV
- Max. load cell impedance 1200 Ω
- Min. load cell impedance 43,75 Ω
- Max. no. of load cells 350 Ω: 8
- Max. no. of load cells 1000 Ω: 22
- Max. resolution d 10.000
- Display steps 1, 2, 5, 10, 20, 50, 100, 200
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Mains adapter for voltage supply to the KERN CE, can be fitted on the DIN rail, KERN CE HSS, € 90,-
- Large display with superior display size, KERN YKD-A02, € 310,-
- For further accessories, such as load and load cells, torque sensors and weighing platforms (strain gauge based only) from the SAUTER and KERN range, see internet
- Further accessories such as DIN rail, housing as well as individual assembly, configuration, adjustment, etc. on request

Note: Models optionally also available verified, please enquire

STANDARD

CAL EXT

USB

UNIT

1 DAY

OPTION

RS 232

PROFIBUS

PROFINET

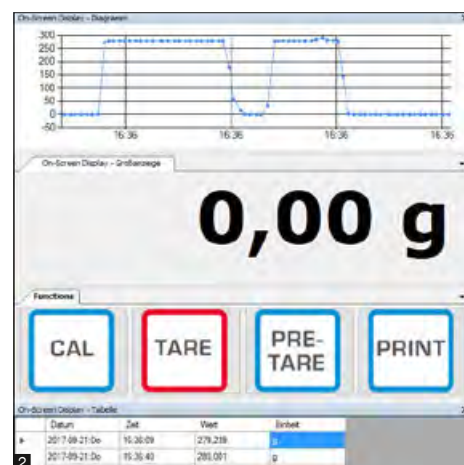
SWITCH

ANALOG

LAN

Model	Communication Interfaces	Digital I/O	Analog output	Price excl. of VAT ex works €
KERN				
CE HSAIO*	USB	3 input / 4 output	0/4-20/24 mA	920,-
CE HSP*	USB, PROFIBUS	3 input / 4 output		590,-
CE HSR*	USB, RS-232, RS-422	3 input / 4 output		560,-
CE HSN	USB, PROFINET	3 input / 4 output		830,-

* ONLY WHILE STOCKS LAST



Universal weighing platforms for flexible connection in process chains

Features

- These weighing platforms can be easily integrated into your process chain. All recorded values can be easily transferred and processed further in your system as digital data and data that has already been compared using the many interfaces available. This saves cost, time and resources and ensures even more effective working
- Connecting the platform with a tablet or PC offers the advantage of being able to use the apps and programs which are on that device. This offers you the maximum level of flexibility when displaying, processing and saving the recorded weighing data
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- **1** A practical status LED informs about the active power supply

- Draught shield standard for models with weighing plate size **A**, weighing space W×D×H 146×146×80 mm
- **2** Software BalanceConnection for adjusting and managing the KERN KDP, for large-format display of the values collected on the PC as well as transfer of this data to other Apps and programs included with the delivery

Technical data

- Dimensions weighing surface
A Ø 105 mm, plastic, with conductive lacquer
B W×D 160×160 mm, stainless steel, see larger picture
- Overall dimensions W×D×H 165×166×75 mm (without draught shield)
- Cable length approx. 1,2 m
- Net weight approx. 1,2 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, KERN KDP-A03, **€ 54,-**
- WiFi data interface to transfer data from balances to PC or tablet, must be ordered at purchase, KERN YMI-A01, **€ 95,-**
- Ethernet data interface, to connect an IP-based Ethernet network, continuous data transfer, must be ordered at purchase, KERN KDP-A02, **€ 110,-**

*WiFi and Ethernet data interface cannot be combined

STANDARD



OPTION



FACTORY



Model	Weighing capacity	Readability	Reproducibility	Linearity	Weighing plate	Price excl. of VAT ex works €	Options DAkKS Calibr. Certificate DAkKS KERN	€
	[Max] g	[d] g	g	g				
KERN KDP 300-3	350	0,001	0,002	± 0,005	A	490,-	963-127	103,-
KERN KDP 3000-2	3500	0,01	0,02	± 0,05	B	490,-	963-127	103,-
KERN KDP 10K-4	10000	0,1	0,1	± 0,3	B	460,-	963-128	124,-
KERN KDP 10K-3	10000	1	1	± 3	B	440,-	963-128	124,-

WE CAN MAKE YOUR WEIGHING DATA DIGITAL – KERN EASYTOUCH

The KERN EasyTouch software combines the performance of KERN scales with the flexibility of a Windows or Android environment.

The modular system solution for efficient weighing – perfect for your individual requirements.



12

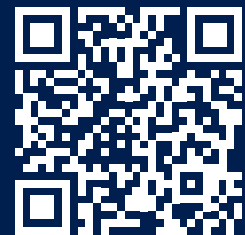
KERN EasyTouch – weighing is so easy today:
A perfectly coordinated weighing system
consisting of platform, balance and tablet

See for yourself the many benefits of the KERN EasyTouch Software:

- Greater efficiency through short workflows for the user
- Greater security of the measuring results
- Avoiding measuring and process errors
- Unlimited master data memory
- Central data storage and data security (tamper-proof)
- Interfaces to ERP, PPS, etc. systems

All details about KERN EasyTouch can be found at
<https://lp.kern-sohn.com/en/easytouch>

 **Easy
Touch**



See for yourself how convenient
and easy it is
to use KERN EasyTouch

Working with KERN EasyTouch is so easy

Collect the weight and measurement data with a device from our KERN IoT-Line

KERN EasyTouch combines and processes weights with master and product data, as well as user and time information

Supply of data to connected systems or peripheral devices



→ A standard balance from our KERN IoT-Line is connected to an external laptop/tablet

→ The performance of the balance is transferred to the terminal device 1:1

→ The expansion of the user interface enables simple and intuitive operation of the balance and direct display and processing of measurement and master data

→ The data is integrated directly in the process and this means it can continue to be used and stored

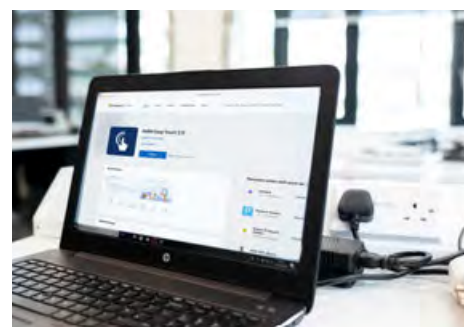
→ Errors in the process or application are avoided

→ In this way a simple balance becomes a highly-complex measuring device

→ The recorded data can be processed further in a flexible way

KERN EasyTouch – these functions are included:

- Basic program with functions including weighing and dispensing function, as well as master data and user administration
- Over 20 optional add-on functions
- Tamper-proof data storage and seamless traceability of your measurement data and changes to your master data
- On request we can also offer tailor-made solutions – get in touch with us!



KERN EasyTouch App – download now from Microsoft Store® (for Windows®) or Google Play Store® (for Android™)

Test it without any risk and free of charge – it's that easy:

1

Download KERN EasyTouch from the App Store

The free trial version contains the full range of functions.

2

Connect the devices you need

Connect to devices using the four interfaces provided (Bluetooth, wired or USB adapter or WiFi).

3

Basic program with optional add-on functions 180-day test

During the testing phase you can decide whether to continue using the software. With absolutely no loss of data.

Talk to the professionals

Our specialists will gladly inform and advise you on all questions regarding KERN EasyTouch

Tel. +49 7433 9933-324
etsales@kern-sohn.com



Maximilian Pfister



Wolfgang Schäfer

KERN EasyTouch – You have the following options



Your benefits of the KERN EasyToch software

→ You only pay for the functions that you use

→ Expansion of the range of services of your balance to meet your individual ideas and preferences

→ Easy control of your balances from wherever you currently are: laboratory, production, office control of a PC, laptop or a tablet

→ Tamper-proof storage of all weighing data on a central server, in an orderly database

Possible interfaces:

- Wired through RS 232 interface cable + USB adapter AFH 13
- Bluetooth through KUP-06 or KUM-06
- Ethernet through KUP-04 or KUM-04
- WiFi through KUP-05 or KUM-05

KERN EasyTouch – available right now for the following KERN ranges/models

KERN Balances / Weighing platforms

Display Devices	KFC ⁽¹⁾	Stainless steel Platform Scales	SXC ⁽¹⁾	Precision Balances	572
Baby Scales	MBA	Compact Laboratory Balances	PCB	Wheelchair platform scales	MWN ⁽¹⁾
Floor Scales	BID ⁽¹⁾	Pallet Scales	UID ⁽¹⁾	Chair scales	MCN ⁽¹⁾
Digital Platforms	KDP	Personal Balances	MPN ⁽¹⁾	Bench Scales	FCB ⁽¹⁾
Digital Weighing Systems	KGP	Platform Scales	DS, IFB, IFC ⁽¹⁾ , IOC ⁽¹⁾ , IXC ⁽¹⁾	Counting Scales	CDS, CKE

⁽¹⁾ Verified operation: Weighing data from legally regulated uses can be stored and archived in KERN EasyTouch in conformity with standards, by using models from this product family with valid calibration and measurement value memory. This standard-compliant data storage also applies to SaveServer.

Depending on the model and connection type (USB, Bluetooth, Ethernet, WiFi), please contact KERN specifically, as there may currently still be restrictions on the possible combinations.

Tip: Other KERN ranges can be adapted to be EasyTouch compatible – keep up-to-date with the latest new on <https://lp.kern-sohn.com/en/easytouch>



Note: All KERN models which are EasyTouch compatible are marked with the relevant symbol in the catalogue!

EasyTouch function at a glance

Basic Package – Operating system

SET-01 EasyTouch Base

Basic Weighing & Laboratory Package

The basic package contains many useful functions such as weighing, totalizing, target dispensing and percentage weighing. As well as the local master data administration and management of the weighing results.

The basic package can be expanded at any time with additional, optional add-on functions.



Optional add-on functions

SET-07 Variable

Free variable function

Individually definable units, e.g. cable length g/m, weight per unit area g/m², etc.

SET-08 Take-Out

Take-out function

Ideal for portioning by removing from a source container

SET-11 Safety

Precision & Safety function

Scale monitoring: the MUST for the pharmaceutical sector

SET-16 Batch & Statistics

Batch measuring function with statistical analysis

Perfect function in the context of production control, for calculating averages, etc.

SET-21 Formulation

Recipe function

Recipe management, dosing aid, recipe adjustment, multiplier function, etc.

SET-22 Difference

Difference function

Monitoring of weight increase (e.g. cell growth) or weight decrease (e.g. drying) and calculation of the weight difference

SET-31 Tolerance

Tolerance weighing function

Weighing within defined limits ensures fast sorting, portioning, picking, checking

SET-32 Count

Piece-counting function

Fast counting of large quantities, avoids counting errors, saves time and money!

SET-33 Target Count

Target-counting function

For lightning-fast picking of small parts, safely supported by optical and acoustic signals

SET-17 PrePack

Production control and packaging

Perfect for use in sectors such as the food industry for weighing in accordance with pre-packaging legislation

SET-14 Individual Print

User-customised print format function

Individual positioning of print elements, form printing, paper sizes and barcode printing is possible

You can find more functions on our EasyTouch home page:



<https://lp.kern-sohn.com/en/easytouch>



Central data memory

SET-10 Save-Data Server

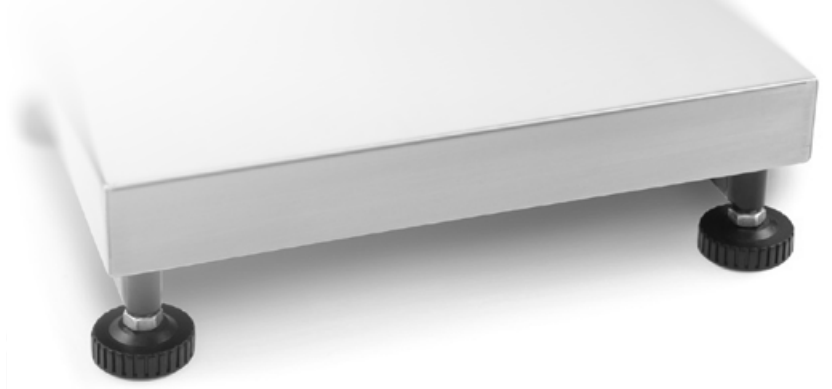
Weight storage and Save-Server function

Central storage of weighing and measuring data in a network

SET-28 Customization Service

Service for programming

Setting up and configuring interfaces (e.g. to merchandise management, ERP or PPS) and individual customer requirements



DISPLAY DEVICES, PLATFORMS, WEIGHING BRIDGES

Customized individual weighing systems, without verification

KERN offers a range of KERN display devices and KERN weighing units, such as platform scales, floor scales, pallet scales and drive-through scales, which you can customize to make your ideal scale. You choose the components, KERN handles the rest.

Assembly

KERN delivers the complete scale which is ready to use. Prices for assembly can be found in the "Assembly" price table. On request we can also create a calibration certificate in accordance with DAkkS at an additional price, see *DAkkS Calibration Service*.

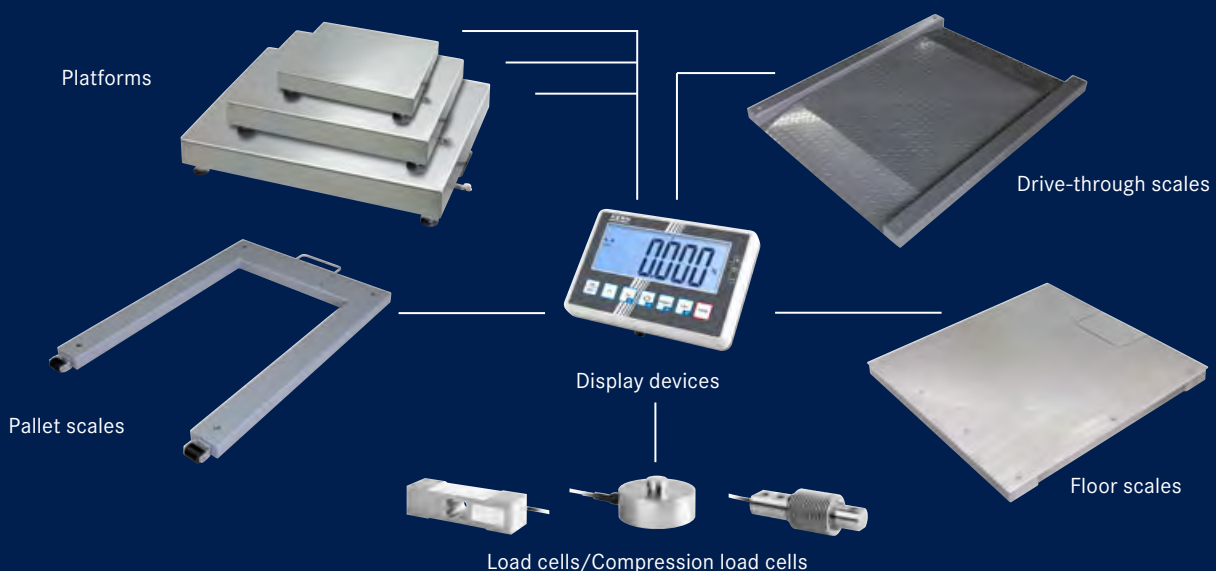
Customizing individual weighing systems which can be verified or are verified

In order to provide the complete package, as well as assembling your individual weighing system, KERN will also carry out the manufacturer's initial verification/evaluation for conformity in accordance with EC directives as a commercial scales of verification class III.

In accordance with the European verification regulations, when assembling a display device with a weighing unit you must take the following notes into account:

- Only elements which can be verified with type approval or OIML test certificate can be combined into a weighing system which can be verified. Possible models are marked with "M".
- Platforms with load cells, provided as third-party products which have an OIML test certificate can be included.
- It will not be possible to carry out verification at a later date, e.g. after assembly and delivery of the weighing system. So please order the verification at the same time as you order the weighing system.

You will find a wide variety of display devices, platforms, weighing bridges, etc. in KERN's product range and these can be put together to create your ideal scale. You simply choose the components, KERN handles the rest.



The individual KERN steps:

1. Proof of compatibility

This is mandatory by law and includes testing by using type approvals, whether the connection values of the display device match the connection data of the weighing unit.

Weighing capacity	Model	Price excl. of VAT, ex works €
0 up ... kg	KERN	
all Weighing capacities	965-240	49,-

2. Assembly

After testing for suitability using the proof of compatibility, the weighing system will be hard wired by KERN. The weighing system will then be tested in accordance with regulations of 2014/31/EU, the European directive for non-automatic weighing instruments and prepared for conformity assessment.

up ≤ 50 kg	965-411	84,-
up ≤ 350 kg	965-412	119,-
up ≤ 1500 kg	965-413	143,-
up ≤ 2900 kg	965-414	178,-
up ≤ 6000 kg	965-415	300,-

3. Initial verification by the manufacturer

Conformity assessment ("Initial verification by the manufacturer")

KERN is authorised to carry out the conformity assessment ("initial verification by the manufacturer") in accordance with 2014/31/EU, the European directive for non-automatic weighing instruments and is therefore authorised to introduce the weighing system onto the market, after the test has been carried out successfully and the conformity mark has been affixed.

up ≤ 5 kg	965-227	65,-
up ≤ 50 kg	965-228	84,-
up ≤ 350 kg	965-229	110,-
up ≤ 1500 kg	965-230	158,-
up ≤ 2900 kg	965-231	178,-
up ≤ 6000 kg	965-232	235,-

4. Declaration of conformity

KERN issues this after the initial verification by the manufacturer. Conformity assessment has been carried out successfully and sends it with the weighing system at no additional cost, and it can be used in areas regulated by law.

Modifications and special services

Description	Model	Price excl. of VAT, ex works €
	KERN	
Cable extensions for platform scales		
up to 4 m extension	965-403	54,-
up to 7 m extension	965-404	71,-
up to 20 m extension	965-405	89,-
Individual settings		
Scale with NAWI conformity evaluation, only in combination with KERN 965-240	965-401	60,-
Other adjustments in the balance or software changes	965-407	113,-/h
Plug connection (replaces the fixed cable connection between the display device and platform with a plug connection which can be disconnected)		
Balances with type approval and verification (according to time spent)	only possible with separable, verifiable plug connection with identification chip (e.g. KERN KIB-A12), for the corresponding models (e.g. IOC, BID, UID) please order when purchasing	
Balances with type approval, no verification	965-406	71,-

I Delivery time for modifications & special services approx. 5-8 working days

Order example

	Model	Price excl. of VAT, ex works €
KFP 30V20M platform and KEN-TM display device with cable extension (4 m) and setting an individual preload.	KERN	
KERN platform	KFP 30V20M	315,-
KERN display device	KFN-TM	360,-
Proof of compatibility	965-240	49,-
Cable extension	965-403	54,-
Setting the preload	965-401	60,-
Assembly	965-411	84,-
Verification at the factory KERN	965-228	84,-
Complete scale (verified)		1006,-

NOTHING IS IMPOSSIBLE – KERN CUSOS

Perfectly working weighing solutions with customized platform sizes, specific software solutions and coordinated peripherals – to suit your processes.

Our KERN Customized Solution Service offers maximum freedom of choice – give it a try.



Zoologischer Garten Schwerin/Sven P. Peter

KERN CUSOS – Perfectly tailored to you and your requirements

Powerful balances and efficient weighing systems which support you in your work, should be adapted to your individual requirements. Standard models are therefore not sufficient under some circumstances.

For this reason, at KERN it is our pleasure to work with you to develop a solution which is appropriate and tailor-made for you. From a range of platform sizes through to personalised weighing systems within large production plants, we can provide the right measuring technology.

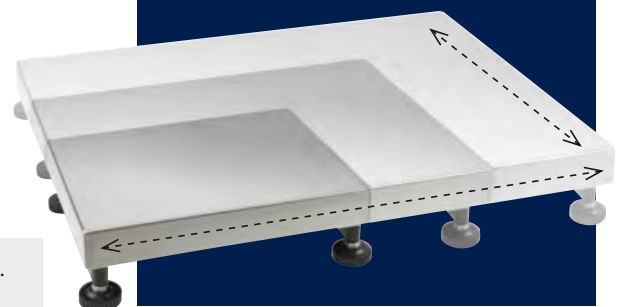
Through close collaboration with your engineers and users, we first check the special requirements for your application. Using this data we will put together the appropriate platform scale, floor scale or a completely personalised weighing system for you, to fit your requirements perfectly.

Tip: Save money and ask our experts. Maybe your desired combination is already included in our standard range?



CUSTOMIZED
SOLUTION SERVICE

For details scan QR Code:





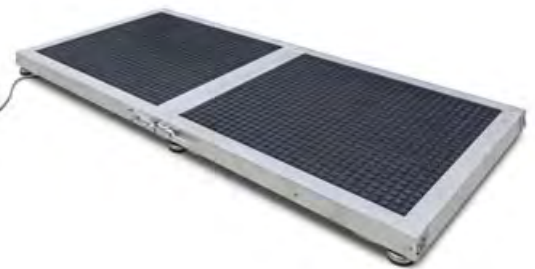
For perfect integration into existing and newly configured processes: individual platform construction in individual formats



Ideal for customised requirements



From horses to rhinos – weighing large animals is child's play with our tailor-made solutions



Your advantage – you have the choice

Choose from a wide range of display devices. Economical and lightweight (plastic version), robust and water-resistant (stainless steel version), with numeric key pad, battery or mains operation or the most varied interfaces.

Load cells to construct automatic weighing systems such as filling or dosing systems, such as might be used, for example, in manufacturing or filling processes in the chemical industry, construction industry, mineral industry, etc.

On many occasions, load cells are also used in the construction of checkweighers or for installation into packaging machines of any type in the food industry.

The weighing data can be forwarded to peripheral devices such as signal lamps, printers and laptops or be used to switch valves, or similar devices.

What's your individual requirement?

Just tell us the size you want and the material you want for your platform and other essential construction details – done! We'll take care of the implementation.

Following you will find a selection of our platforms, load cells and evaluation devices – the starting point for your individual system solution!

Our competent CUSOS team is at your disposal and is looking forward to your project:

Tel: +49 7433 9933-570

E-Mail: cusos@kern-sohn.com



Max Matthes



Fabian Brenner



Further information and products:
www.kern-sohn.com



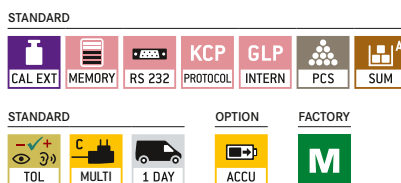
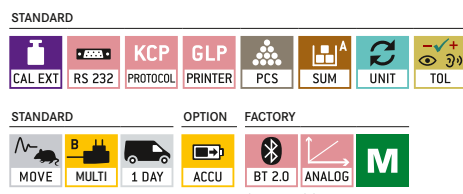
1 KERN KFB-TM

Display device with large digits – easy to read and optional analogue output for controlling systems (PLC) etc.



2 KERN KFS-TM

Professional indicator with 3 displays, also with EC type approval [M]



Features	Model KERN 1 KFB-TM	Model KERN 2 KFS-TM
Display (segments)	5 + ½ digits	6 digits
EC type approval	yes	yes
Resolution verifiable	6000 e	3000 e
Resolution non verifiable	30000 d	60000 d
Weighing capacities	≤ 2	≤ 2
Weighing units	kg, lb	kg, g
Readability	1, 2, 5, 10, n	1, 2, 5, 10, n
Piece counting with reference	10, 20, 50, 100, 200	n
Display, digit height	Backlit LCD display, 52 mm	Backlit LCD displays, 13/16,5 mm
Additional functions	Totalising, HOLD function, Integrated KERN Communication Protocol (KCP), ideal for connecting an Merchandise Management or ERP system, Compatible with the KERN EasyTouch App	99 item memories, totalising, printing of date and time, Integrated KERN Communication Protocol (KCP), ideal for connecting an Merchandise Management or ERP system, Compatible with the KERN EasyTouch App
Strain gauge load cells	87 – 1600 Ω	87 – 1600 Ω
Linearisation	3 points	4 points
Input voltage	12 V, 500 mA	12 V, 500 mA
Permissible ambient temperature	-10 °C/40 °C	0 °C/40 °C
Interface RS-232	yes	yes
2. Interface RS-232, separate Y cable	CFS-A04, € 38,-	CFS-A04, € 38,-
Interface RS-485	–	–
Interface USB	–	–
Interface Bluetooth	KERN KFB-A03, € 160,-	–
Analogue module	0–10V: KERN KFB-A04, € 170,-; 4–20 mA: KERN KFB-A05, € 170,-;	–
Signal lamp	CFS-A03, € 310,-	CFS-A03, € 310,-
Foot switch	–	–
Stand	BFS-A07, € 170,-	BFS-A07, € 170,-
Benchtop stand for display device/wall mount	yes/yes	yes/yes
Protective working cover	KFB-A02S05, € 52,-	KFB-A02S05, € 52,-
Rechargeable battery pack	KFB-A01, € 40,-	KFB-A01, € 40,-
Operating/charging time	up to 35 h/12 h	up to 40 h/12 h
Dimensions Housing W×D×H	250×160×65 mm	260×150×65 mm
Net weight	1,2 kg	1,5 kg
Price, excl. of VAT, ex works, €	260,-	280,-

* not possible in combination with verification. When installing the Bluetooth data interface, the RS-232 data interface can no longer be used

** not possible in combination with signal lamp. When installing the analogue module, the RS-232 data interface can no longer be used



3 KERN KIB-TM

Practical Flip/Flop Display device for greatest ease of use

Features

- Practical Flip/Flop display device: flexible positioning e.g. free-standing or screwed to the wall (optional). By rotating the upper housing shell you can determine the angle of the display as well as the cable outlet. Factory Option ex works for an additional cost, delivery time + 2 working days, KERN KIB-M01, € 104,-
- Industry 4.0: A large number of (optional) data interfaces enable convenient transferring weighing data to tablets, labtops, PCs, networks, smartphones, printers, etc.
- Searching and remote control of the balance using external control devices or computers with the KERN Communication Protocol (KCP).



4 KERN KFN-TM

Stainless steel display device with IP65 protection and superior display size and optional analogue output for controlling systems (PLC) etc.



STANDARD



OPTION



FACTORY

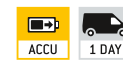


* Note: In addition to the RS-232 data interface, which is integrated as standard, only one other data interface can be installed and operated

STANDARD



STANDARD



FACTORY



Features

	Model KERN 3 KIB-TM***	Model KERN 4 KFN-TM
Display (segments)	6 digits	5 + 1/2 digits
EC type approval	yes	yes
Resolution verifiable	6000 e	6000 e
Resolution non verifiable	60000 d	30000 d
Weighing capacities	≤ 2	≤ 2
Weighing units	kg, g	kg
Readability	1, 2, 5, 10, n	1, 2, 5, 10, n
Piece counting with reference	5, 10, 20, 25, 50, 100	10, 20, 50, 100, 200
Display, digit height	Backlit LCD display, 24 mm	Backlit LCD display, 52 mm
Additional functions	Totalising, HOLD function, printing of time. KCP Only possible through RS-232; USB, Bluetooth, WiFi, Digital I/O, LAN on request	Totalising, HOLD function
Strain gauge load cells	87-1100 Ω	87 - 1600 Ω
Linearisation	3 points	3 points
Input voltage	12 V DC, 1000 mA	12 V, 500 mA
Permissible ambient temperature	-10 °C/40 °C	-10 °C/40 °C
Interface RS-232	yes*	KFN-A01, € 225,-
Interface RS-485	-	-
Interface USB	KIB-A03*, € 120,-	-
Interface Bluetooth	KIB-A04, € 110,-	-
WiFi	KIB-A10*, € 130,-	-
SWITCH (DIGITAL I/O)	-	-
LAN	KIB-A02*, € 165,-	-
Alibi memory	KIB-A01, € 175,-	-
Analogue module	-	0-10V: KERN KFB-A04, € 170,-; 4-20 mA: KERN KFB-A05, € 170,-;
Stand	EOC-A05, € 65,-	BFS-A07, € 170,-
Benchtop stand for display device/wall mount	EOC-A04, € 33,-	yes/yes
Protective working cover	EOC-A01S05, € 55,-	-
Rechargeable battery pack	KFB-A01, € 40,-	GAB-A04, € 42,-
Operating/charging time	up to 43 h/3 h	up to 35 h/12 h
Dimensions Housing W×D×H	268×115×70 mm	266×165×96 mm
Net weight	0,8 kg	2,6 kg
Price, excl. of VAT, ex works, €	220,-	360,-

! *** ONLY WHILE STOCKS LAST

* not possible in combination with verification. When installing the Bluetooth data interface, the RS-232 data interface can no longer be used

** not possible in combination with signal lamp. When installing the analogue module, the RS-232 data interface can no longer be used



Display device with up to three interfaces and optional verification

Features

- Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- Industry 4.0: Data and control commands can be exchanged through the KERN Universal Port using one interface, which can be connected to the housing, or through three parallel interfaces using the KUP Extension box
- The following interfaces are available as an option: RS-232, USB, Analogue module, Ethernet, WiFi, Bluetooth

- Each interface can be set up separately, e.g.:
 - Interface 1 (WiFi): Continuous sending to PC for documentation of a process
 - Interface 2 (RS 232): Print stable weight
 - Interface 3 (analogue module): Controlling a device when the target weight is reached
- Available as an option with alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further
- Data query and remote control of the balance using a computer or CRM/ERP systems using the KERN Communication Protocol

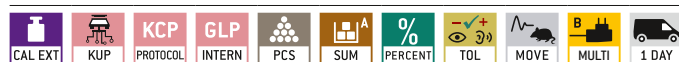


- Simplified battery replacement through easily-accessible housing. Particularly advantageous for models with optional verification, as the verification seal remains intact
- With Real Time Clock as standard: Enables you to log the weighing results with accurate time information. Even if the power supply is interrupted, the balance can continue to work with the correct time

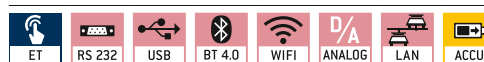
Accessories

- Stand to elevate display device, height of stand approx. 1040 mm, KERN BFS-A07, **€ 170,-**
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, **€ 35,-**
- External data interface RS-232, interface cable included, KERN KUP-01, **€ 60,-**
- External data interface USB, interface cable included, KERN KUP-03, **€ 75,-**
- External data interface Ethernet, KERN KUP-04, **€ 115,-**
- External data interface WiFi, interface cable included, KERN KUP-05, **€ 75,-**
- Bluetooth interface adapter, KERN KUP-06, **€ 99,-**
- Analogue module, KERN KUP-08, **€ 170,-**
- *Extension box for connecting up to three interfaces in parallel, KERN KUP-13, **€ 75,-**
- Memory module (alibi memory), KERN YMM-04, **€ 80,-**
- Signal lamp for visual support of weighing with tolerance range, connection is only possible in combination with KUP-01 (RS 232 interface), KERN CFS-A03, **€ 310,-**

STANDARD



OPTION



FACTORY



Features

Features	Model KERN KFC-TM
Display (segments)	6
EU type approval	yes
Resolution (verifiable)	3.000 / 2 × 3.000
Resolution (non verifiable)	100 - 999.999
Weighing capacities	single-range / 2 × multi-range / 2 × multi-division
Weighing units	kg, g, lb, ffa, PCS, % Verifiable: kg, g
Piece counting with reference	5, 10, 20, 50, n
Display, digit height	50 mm
Strain gauge load cells	87 - 1100 Ω
Linearisation (points)	2 / 3 / 5
Input voltage	110 V - 240 V AC
Accu operation time - without backlight	48 h
Accu charging time	8 h
Dimensions Housing W×D×H	220×145×65 mm
Net weight	0,7 kg
Permissible ambient temperature	-10°C/40°C
Price, excl. of VAT, ex works, €	230,-



Accessories

- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, € 35,-
- GB mains adapter, cable length 1,5 m, KERN KXS-A06, € 109,-
- Stand to elevate display device, height of stand approx. 1040 mm, KERN BFS-A07, € 170,-
- Internal data interface RS-232, interface cable included, KERN KUM-01, € 120,-
- Internal data interface USB, interface cable included, KERN KUM-03, € 120,-
- Internal data interface Ethernet, interface cable included, KERN KUM-04, € 165,-
- Internal data interface WiFi, KERN KUM-05, € 95,-
- Internal data interface Bluetooth, KERN KUM-06, € 135,-
- Analogue module, KERN KUM-08, € 145,-
- Memory module with real time clock (alibi memory), KERN YMM-06, € 160,-

*Note: only two wired connections (RS-232, Ethernet, USB or analogue module) and two wireless connections (WiFi or Bluetooth) can be used at the same time

Stainless steel display device with IP68 dust and spray protection and up to four interfaces

Features

- With dust and spray protection (IP68), which makes it ideal for use in industry and outdoors
- Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- Industry 4.0: The exchange of data and control commands is optional using up to four interfaces to suit individual requirements: two wired connections (RS 232, Ethernet, USB or analogue module) and two wireless connections (WiFi or Bluetooth)

- Each interface can be set up separately, e.g.:
 - Interface 1 (WiFi): Continuous sending to PC for documentation of a process
 - Interface 2 (RS-232): Print stable weight
 - Interface 3 (analogue module): Controlling a device when the target weight is reached
 - Interface 4 (Bluetooth): Continuous sending to a tablet to monitor a process
- Data query and remote control of the balance using a computer or CRM/ERP systems using the KERN Communication Protocol
- Available as an option with alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further

STANDARD

CAL EXT

KCP

GLP

PCS

SUM

PERCENT

TOL

MOVE

IP 68

230 V

1 DAY

OPTION

ET

FACTORY

ALIBI

RS 232

USB

BT

WIFI

ANALOG

LAN

ACCU

M

Features	Model KERN KXC-TM
Display (segments)	6
EU type approval	yes
Resolution (verifiable)	3.000 / 2 × 3.000
Resolution (non verifiable)	100 - 999.999
Weighing capacities	single-range / 2 × multi-range / 2 × multi-division
Weighing units	kg, g, lb, ffa, PCS, %
Piece counting with reference	5, 10, 20, 50, n
Display, digit height	48 mm
Strain gauge load cells	87 - 1100 Ω
Linearisation (points)	2 / 3 / 5
Input voltage	110 V - 240 V AC
Accu operation time - without backlight	48 h
Accu charging time	8 h
Dimensions Housing W×D×H	232×150×80 mm
Net weight	2,6 kg
Permissible ambient temperature	-10°C/40°C
Price, excl. of VAT, ex works, €	400,-



1 KERN KBP-V20 IP65

Platform

Features

- Stainless steel-weighing plate, **A** painted steel base
- 1 load cell, aluminium, silicone-coated, IP65, OIML-R60-approved, class III, 3000 e
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard
- Preparation for easy assembly of the ESD earthing kit on the weighing bridge



STANDARD



FACTORY



KPB 600



2 KERN KFP-V20 IP65

Platform

Features

- Stainless steel-weighing plate, **B** painted steel base
- 1 load cell, aluminium, silicone-coated, IP65, OIML-R60-approved, class III, 3000 e
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard



STANDARD



FACTORY



KPB 600



3 KERN KXP-V20 IP65

Platform

Features

- Stainless steel-weighing plate, **C** painted steel base, extremely rigid, wing design
- 1 load cell, aluminium, silicone-coated, IP65, OIML-R60-approved, class III, 3000 e
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard



STANDARD

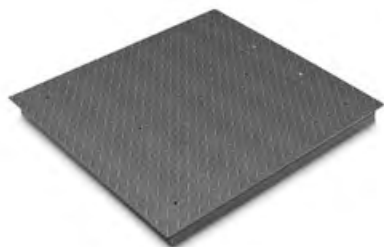


FACTORY



Model	Weighing capacity	Readability	Verification value	Minimal load	Cable length	Net weight	Weighing plate	Price excl. of VAT ex works €
	[Max] kg	[d] g	[e] g	[Min] g	approx. m	approx. kg	W×D×H mm	
KERN								
1 Platform KBP-V20 IP65								
KBP 6V20LM	3 6	0,2	1 2	20 40	2,5	3,8	300×300×110	200,-
KBP 15V20M	6 15	0,5	2 5	40 100	2,5	3,8	300×240×110	200,-
KBP 15V20LM	6 15	0,5	2 5	40 100	2,5	7	400×300×110	220,-
KBP 30V20M	15 30	1	5 10	100 200	2,5	7	400×300×110	220,-
KBP 60V20M	30 60	2	10 20	200 400	2,5	7	400×300×110	230,-
KBP 60V20LM	30 60	2	10 20	200 400	2,5	10	500×400×120	290,-
KBP 150V20M	60 150	5	20 50	400 1000	2,5	10	500×400×120	320,-
KBP 150V20LM	60 150	5	20 50	400 1000	2,5	19	650×500×150	480,-
KBP 300V20M	150 300	10	50 100	1000 2000	2,5	19	650×500×150	480,-
KBP 600V20M	300 600	20	100 200	2000 4000	2,5	42	800×600×200	680,-
2 Platform KFP-V20 IP65								
KFP 3V20M	3	0,1	1	20	2,5	3,4	230×230×103	205,-
KFP 6V20M	6	0,2	1 2	20 40	2,5	4,4	230×230×103	205,-
KFP 6V20LM	6	0,2	1 2	20 40	2,5	3,8	300×240×105	250,-
KFP 15V20M	6 15	0,5	2 5	40 100	2,5	3,8	300×240×105	285,-
KFP 15V20LM	6 15	0,5	2 5	40 100	2,5	7	400×300×114	315,-
KFP 30V20SM	15 30	1	5 10	100 200	2,5	3,8	300×240×105	250,-
KFP 30V20M	15 30	1	5 10	20	2,5	7	400×300×114	315,-
KFP 30V20LM	15 30	1	5 10	20	2,5	10	500×400×124	395,-
KFP 60V20M	30 60	2	10 20	200 400	2,5	7	400×300×114	330,-
KFP 60V20LM	30 60	2	10 20	200 400	2,5	10	500×400×124	405,-
KFP 150V20M	60 150	5	20 50	400 1000	2,5	10	500×400×124	415,-
KFP 150V20LM	60 150	5	20 50	400 1000	2,5	19	650×500×136	600,-
KFP 300V20M	150 300	10	50 100	1000 2000	2,5	19	650×500×136	600,-
KFP 600V20AM	600	20	200	4000	2,5	42	800×600×189	910,-
3 Platform KXP-V20 IP65								
KXP 6V20LM*	3 6	0,2	1 2	20 40	3	3,8	300×240×90	310,-
KXP 15V20M*	6 15	0,5	2 5	40 100	3	6	300×240×90	320,-
KXP 15V20LM*	6 15	0,5	2 5	40 100	3	8	400×300×90	430,-
KXP 30V20M*	15 30	1	5 10	100 200	3	8	400×300×90	430,-
KXP 30V20LM*	15 30	1	5 10	100 200	3	22	500×400×125	570,-
KXP 60V20M*	30 60	2	10 20	200 400	3	11	400×300×90	440,-
KXP 60V20LM*	30 60	2	10 20	200 400	3	17	500×400×125	600,-
KXP 150V20M*	60 150	5	20 50	400 1000	3	18	500×400×125	570,-
KXP 150V20LM*	60 150	5	20 50	400 1000	3	34	650×500×135	710,-
KXP 300V20M*	150 300	10	50 100	1000 2000	3	34	650×500×135	710,-

* ONLY WHILE STOCKS LAST!

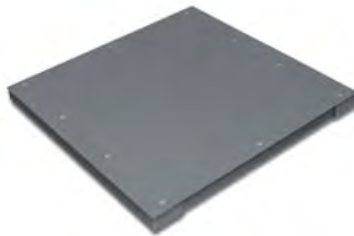


4 KERN KIP-V20M

Weighing Bridge

Features

- Weighing bridge with non-slip chequer plate, lacquered, welded
- 4 Load cells, steel, silicone-coated, IP67, OIML-R60-approval for verification, class III, 3000 e
- Can be built in using pit frames (optional)
- Level indicator and levelling feet for precise levelling of the scale
- Easy access to the junction box from the top
- Comfortable levelling of the weighing bridge from the top

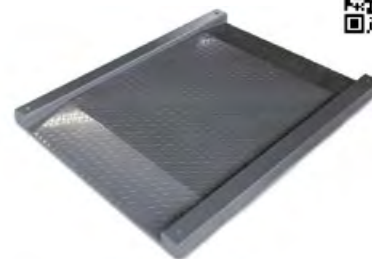


5 KERN KFP-V20 IP67

Weighing Bridge

Features

- Weighing plate screwed on from the top (models with [Max] ≤ 1500 kg), so it easy to remove, hygienic and easy to clean.
- Lacquered steel weighing bridge, weighing plate size 1500×1500×130 mm corrugated steel plate. Extremely resistant to bending due to material thickness
- 4 Load cells, steel, silicone-coated, IP67, OIML-R60-approval for verification, class III, 3000 e
- Can be built in using pit frames (optional)
- Level indicator and levelling feet for precise levelling of the scale
- Easy access to the junction box from the top
- Comfortable levelling of the weighing bridge from the top



6 KERN KFD-V20

Weighing Bridge

Features

- Weighing bridge made of non-slip corrugated steel plate, lacquered, two access ramps integrated, extremely resistant to bending
- Extremely flat construction to facilitate access: access height only 45 mm
- 4 Load cells, alloy steel, silicone-coated, IP67, OIML-R60-approved class III, 3000 e



Model	Weighing range [Max] kg	Readability [d] g	Verification value [e] g	Min. load [Min] g	Cable length approx. m	Net weight approx. kg	Weighing plate W×D×H mm	Price excl. VAT, ex works €
KERN								
4 Weighing bridge KIP-V20M								
KIP 1500V20SM	1500	500	500	10000	5	130	1000×1000×108	1 170,-
KIP 1500V20EM	1500	500	500	10000	5	140	1200×1000×108	1 250,-
KIP 3000V20M	3000	1000	1000	20000	5	150	1500×1200×108	1 550,-
KIP 3000V20LM	3000	1000	1000	20000	5	180	1500×1500×108	1 780,-
5 Weighing bridge KFP-V20 IP67								
KFP 1500V20SNM	1500	500	500	10000	5	100	1000×1000×85	1 370,-
KFP 1500V20NM	1500	500	500	10000	5	135	1500×1250×90	1 910,-
KFP 3000V20NM	3000	1000	1000	20000	5	135	1500×1250×90	1 860,-
KFP 3000V20LNM	3000	1000	1000	20000	5	155	1500×1500×80	2 150,-
6 Weighing bridge KFD-V20								
KFD 600V20M*	600	200	200	4000	5	125	1600×1200×78	1 860,-
KFD 600V20LM*	600	200	200	4000	5	155	1800×1400×80	2 170,-
KFD 1500V20M*	1500	500	500	10000	5	125	1600×1200×78	1 860,-
KFD 1500V20LM*	1500	500	500	10000	5	175	1800×1400×78	2 170,-

* ONLY WHILE STOCKS LAST! New model



7 KERN KFA-V20

Weighing Beams

Features

- Weighing beams and painted steel base
- 4 load cells, alloy steel, silicone-coated, IP67
- Levelling feet for precise levelling of the weighing beams
- Connection cable, length 5 m
- **D** Image below: Version up to 6 t available. Each weighing beam has a roller and handle for easy transport of the scale (KERN KFA-L)
- **Special feature:** model with short weighing beams, ideal for weighing compact items or animals in transport boxes
 - KERN KFA-600V20S
- Accessories see KERN UFA



8 KERN KFU-V20/V30

U-Weighing Bridge

Features

- Load range: painted steel (V20), stainless steel (V30) height 90 mm
- 4 load cells, alloy steel, silicone-coated, IP67, OIML-R60-approval for verification, class III, 3000 e
- 2 rollers and handle for easy transport of the scale

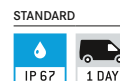
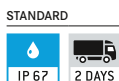


9 KERN KFP-V30

Platform

Features

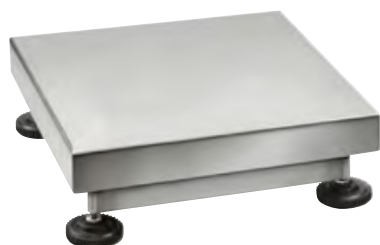
- Stainless steel-weighing plate, **E** stainless steel substructure
- 1 load cell, stainless steel, silicone-coated, IP67, OIML-approved, class III, 3000 e
- Level indicator and levelling feet for precise levelling of the scale



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Model	Weighing range [Max] kg	Readability [d] g	Verification value [e] g	Min. load [Min] g	Cable length approx. m	Net weight approx. kg	Weighing plate W×D×H mm	Price excl. VAT, ex works €
KERN								
7 Weighing beams KFA-V20								
KFA 600V20S*	600	200	-	-	5	30	800×120×100	820,-
KFA 1500V20*	1500	500	-	-	5	36	1200×120×100	900,-
KFA 3000V20*	3000	1000	-	-	5	36	1200×120×100	1100,-
KFA 3000V20L*	3000	1000	-	-	5	65	2000×120×100	1350,-
KFA 6000V20*	6000	2000	-	-	5	85	1200×160×80	1470,-
KFA 6000V20L*	6000	2000	-	-	5	125	2100×160×85	1870,-
8 U-Weighing bridge KFU-V20								
KFU 600V20M	600	200	200	4000	5	55	840×1350×90	1130,-
KFU 1500V20M	1500	500	500	10000	5	55	840×1350×90	1100,-
8 Stainless steel U-Weighing bridge KFU-V30								
KFU 1500V30M*	1500	500	500	10000	5	55	840×1350×90	1730,-
9 Stainless steel platform KFP-V30								
KFP 15V30M	15	1	5	100	2,5	5,0	300×240×100	700,-
KFP 30V30M	30	1	10	200	2,5	10	400×300×128	760,-
KFP 30V30SM	30	2	10	200	2,5	5,0	300×240×100	690,-
KFP 60V30M	60	2	20	400	2,5	10	400×300×128	760,-
KFP 60V30LM	60	5	20	400	2,5	10	500×400×137	950,-
KFP 60V30XLM	60	5	20	400	2,5	22	650×500×142	1370,-
KFP 150V30SM	150	10	50	1000	2,5	10	400×300×128	710,-
KFP 150V30M	150	10	50	1000	2,5	10	500×400×137	940,-
KFP 150V30LM	150	10	50	1000	2,5	22	650×500×135	1280,-
KFP 300V30M	300	20	100	2000	2,5	22	650×500×135	1200,-

I * ONLY WHILE STOCKS LAST!

**10 KERN KFP-V40 IP68****Stainless steel platform****Features**

- Platform: entirely out of stainless steel
- 1 load cell, stainless steel, encapsulated, IP68, OIML R60 approval for verification, class III, 3000 e
- Level indicator and levelling feet for accurate levelling of the balance

**11 KERN KFP-V40 IP68****Stainless steel weighing bridge****Características**

- Weighing bridge entirely made of stainless steel, extremely resistant to bending because of its high material thickness
- **G** Weighing plate fixed with stainless steel screws, for easier access to the loadcells from above
- 4 Load cells, stainless steel, encapsulated, IP68, OIML R60 approval for verification, Class III, 3000 e
- Can be built in using pit frames (optional)
- Level indicator and levelling feet for accurate levelling of the balance
- Comfortable levelling of the weighing bridge from the top

**12 KERN KFD-V40 IP68****Stainless steel weighing bridge****Características**

- Weighing bridge made from stainless steel, two integrated access ramps, extremely resistant to bending
- Extremely flat construction to facilitate access: access height only 45 mm
- 4 Load cells, stainless steel, encapsulated, IP68, OIML R60 approval for verification, Class III, 3000 e
- Level indicator and levelling feet for accurate levelling of the balance



Model	Weighing capacity	Readability	Verification value	Minimal load	Cable length	Net weight	Weighing plate	Price excl. of VAT ex works €
	[Max] kg	[d] g	[e] g	[Min] g	approx. m	approx. kg	W×D×H mm	
KERN								
10 Stainless steel platform KFP-V40 IP68								
KFP 6V40M	6	0,5	1 2	20	3	5,0	300×240×104	900,-
KFP 15V40M	15	1	2 5	40	3	5,0	300×240×104	900,-
KFP 15V40LM	15	1	2 5	40	3	5,0	400×300×107	930,-
KFP 30V40M	30	2	5 10	100	3	8	400×300×107	930,-
KFP 30V40LM	30	2	5 10	100	3	8	500×400×107	1010,-
KFP 60V40M	60	5	10 20	200	3	8	400×300×120	950,-
KFP 60V40LM	60	5	10 20	200	3	10	500×400×124	1050,-
KFP 150V40M	150	10	20 50	400	3	10	500×400×124	1050,-
KFP 150V40LM	150	10	20 50	400	3	22	650×500×136	1330,-
KFP 300V40M	300	20	50 100	1000 2000	3	22	650×500×136	1250,-
11 Stainless steel weighing bridge KFP-V40 IP68								
KFP 3000V40M	3000	1000	1000	20000	5	135	1500×1250×80	4000,-
12 Stainless steel weighing bridge KFD-V40 IP68								
KFD 600V40M*	600	200	200	4000	5	130	1600×1200×78	3840,-
KFD 1500V40M*	1500	500	500	10000	5	130	1600×1220×95	3790,-

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LOAD CELLS

Accuracy classes with nominal loads from 300 g to 100 t and protection classes up to IP69K as well as cells protected according to ATEX or OIML approved cells are available to you from now in the SAUTER product range. Whatever the project – whether it's the development of customised weighing systems, installation in silos and storage tanks or in shelving for continuous inventory, for special application in mechanical engineering or in any type of test bench – SAUTER can offer you just the right load cell.

Of course, we can also supply you with the appropriate accessories such as load corners, pivot heads, display devices, junction boxes or the relevant calibration certificate at the same time.

Any special requests? Do you need special load cells, other capacities or cable lengths, individual force test benches or a special mount for your test item?

No problem, our product specialist for force-load cells Mr Stefan Herrmann is available at any time to help you further and will work with you to develop a customised concept for your application.



Everything about load cells
in the SAUTER catalogue 2025.



Stefan Herrmann
Product specialist
Load cells
Tel. +49 7433 9933-214
stefan.herrmann@kern-sohn.com

BALANCE MANUFACTURE

Load cell + Junction Box + KERN YKV

FORCE MEASUREMENT

Load cell + SAUTER FL + Software

BALANCE MANUFACTURE

Load cell + display device

BALANCE MANUFACTURE

Load cell + KERN YKV +
KERN Software BalanceConnection

BALANCE MANUFACTURE

Load cell + Junction Box
+ display device



SAUTER load cells – integration opportunities

**CP P4 · CP Y4****Single-point load cell made from anodised aluminium****Technical data**

- CP P4: Accuracy in accordance with OIML R60 C3
- CP Y4: Accuracy in accordance with OIML R60 C2
- CE and RoHS compliant
- Protection against dust and water splashes IP65 (in accordance with EN 60529)
- Aluminium, anodised
- Suitable for price-computing scales, bench scales, platform scales, etc.
- Maximum platform size: 200×200 mm
- Nominal sensitivity: 0,9 mV/V
- 4-wire connection
- Cable length approx. 0,4 m

CP P1 · CP Y1**Single-point load cell made from anodised aluminium****Technical data**

- CP P1: Accuracy in accordance with OIML R60 C3
- CP Y1: Accuracy in accordance with OIML R60 C2
- CE and RoHS compliant
- Protection against dust and water splashes IP65 (in accordance with EN 60529)
- Aluminium, anodised
- Suitable for price-computing scales, bench scales, platform scales, etc.
- Maximum platform size: 250×350 mm
- Nominal sensitivity: 2 mV/V
- 4-wire connection
- Note: Version in accordance with OIML R60 C4 or C5 on request

CP P3**Single-point load cell made from anodised aluminium****Technical data**

- Accuracy in accordance with OIML R60 C3
- CE and RoHS compliant
- Protection against dust and water splashes IP65 (in accordance with EN 60529)
- Aluminium, anodised
- Suitable for price-computing scales, bench scales, platform scales, etc.
- Maximum platform size: 350×400 mm
- Nominal sensitivity: 2 mV/V
- 4-wire connection
- Cable length approx. 3 m
- Note: Version in accordance with OIML R60 C4 or C5 on request



Model	Nominal load	Price excl. of VAT ex works €
KERN	kg	
CP 300-0P4	0,3	65,-
CP 600-0P4	0,6	65,-
CP 300-0Y4	0,3	55,-
CP 1500-0Y4	1,5	55,-
CP 3000-0Y4	3	55,-

Model	Nominal load	Cable length	Price excl. of VAT ex works €
KERN	kg	m	
CP 3-3P1	3	0,4	60,-
CP 3-2-3P1	3	2	74,-
CP 5-3P1	5	0,4	60,-
CP 6-3P1	6	0,4	60,-
CP 8-3P1	8	0,4	60,-
CP 10-3P1	10	0,4	60,-
CP 10-3-3P1	10	3	78,-
CP 15-3P1	15	0,4	60,-
CP 15-3-3P1	15	3	78,-
CP 20-3P1	20	0,4	60,-
CP 30-3P1	30	0,4	60,-
CP 35-3P1	35	0,4	60,-
CP 35-3-3P1	35	3	78,-
CP 40-3P1	40	0,4	60,-
CP 50-3P1	50	0,4	60,-
CP 50-2-3P1	50	2	74,-
CP 3-2Y1	3	0,45	33,-
CP 5-2Y1	5	0,45	33,-
CP 10-2Y1	10	0,45	33,-
CP 15-2Y1	15	0,45	33,-
CP 20-2Y1	20	0,45	33,-
CP 30-2Y1	30	0,45	33,-
CP 100-3-3Y1	100	3	50,-

New model

Model	Nominal load	Price excl. of VAT ex works €
KERN	kg	
CP 30-3P3	30	76,-
CP 40-3P3	40	76,-
CP 50-3P3	50	76,-
CP 75-3P3	75	76,-
CP 100-3P3	100	77,-

Tip: Further details and technical data sheet as well as an extensive range of accessories can be found at www.kern-sohn.com



CP P2 Single-point load cell made of aluminium

Technical data

- Accuracy in accordance with OIML R60 C3
- RoHS compliant
- Protection against dust and water splashes IP65 (in accordance with EN 60529)
- Aluminium alloy, anodized
- Suitable for price computing scales, bench scales etc.
- Maximum platform size
CP P2, 100 – 300 kg: 400×400 mm
CP P2, 400 – 500 kg: 450×450 mm
- CP P2: 4-wire connection
- Nominal sensitivity: 2 mV/V
- Cable length
CP P2: 2 m
- Note: Version in accordance with OIML R60 C4 or C5 on request

CP P7 Single-Point load cell made from stainless steel

Technical data

- Accuracy in accordance with OIML R60 C3
- RoHS compliant
- Protection against dust and water splashes IP67 (in accordance with EN 60529)
- Stainless steel
- Area of application: Mass as well as compressive force measurement in harsh environmental conditions
- Suitable for price computing scales, bench scales etc.
- Maximum platform size: 400×400 mm
- 6-wire connection
- Nominal sensitivity: 2 mV/V
- Cable length: 1 m
- Note: Version in accordance with OIML R60 C4 on request

CP P8 Single-point load cell made of aluminium

Technical data

- Accuracy in accordance with OIML R60 C3
- RoHS compliant
- Protection against dust and water splashes IP65 (in accordance with EN 60529)
- Aluminium alloy, anodized
- Suitable for price computing scales, bench scales etc.
- Maximum platform size 600×600 mm
- 6-wire connection
- Nominal sensitivity: 2 mV/V
- Cable length 3 m
- Note: Version in accordance with OIML R60 C4 or C5 on request

Tip: Further details and technical data sheet as well as an extensive range of accessories can be found at www.kern-sohn.com



Model	Nominal load	Price excl. of VAT ex works €
KERN	kg	
CP 100-3P2	100	81,-
CP 150-3P2	150	81,-
CP 200-3P2	200	81,-
CP 300-3P2	300	81,-
CP 400-3P2	400	81,-
CP 500-3P2	500	81,-

Model	Nominal load	Price excl. of VAT ex works €
KERN	kg	
CP 30-3P7	30	270,-
CP 50-3P7	50	270,-
CP 75-3P7	75	270,-
CP 100-3P7	100	270,-
CP 150-3P7	150	270,-

Model	Nominal load	Price excl. of VAT ex works €
KERN	kg	
CP 50-3P8	50	123,-
CP 100-3P8	100	123,-
CP 150-3P8	150	123,-
CP 200-3P8	200	123,-
CP 250-3P8	250	123,-
CP 300-3P8	300	123,-
CP 500-3P8	500	123,-
CP 600-3P8	600	123,-

**CR Q1****Load cell made from stainless steel****Technical data**

- Accuracy in accordance with OIML R60 C1
- RoHS compliant
- Protection against dust and water splashes IP68 (in accordance with EN 60529), hermetically encapsulated
- Stainless steel
- Area of application: Measuring mass as well as compressive force
- Suitable for vehicle scales, weigh hoppers, vehicle testing equipment, test stands
- Nominal sensitivity: 2 mV/V
- Cable length 10 m

Accessories

- Load corner, steel, galvanised, suitable for CR Q1
 - [Max] ≤ 10 t: SAUTER CE Q42901, **€ 265,-**
 - [Max] ≥ 20 t: SAUTER CE Q42902, **€ 420,-**
- Load corner, steel, stainless, suitable for CR Q1
 - [Max] ≤ 10 t: SAUTER CE RQ42901, **€ 475,-**
 - [Max] ≥ 20 t: SAUTER CE RQ42902, **€ 810,-**



STANDARD	OPTION
 IP 68	 1 DAY
 ISO	 +4 DAYS
[Max] ≤ 25 t/ 250 kN	

Model	Nominal load	Price excl. of VAT ex works €
KERN		
CR 2500-1Q1	2,5 t/25 kN	285,-
CR 5000-1Q1	5 t/50 kN	285,-
CR 10000-1Q1	10 t/100 kN	285,-
CR 20000-1Q1	20 t/200 kN	560,-
CR 30000-1Q1	30 t/300 kN	560,-

CR P1**Load cell made from stainless steel****Technical data**

- Accuracy in accordance with OIML R60 C3
- RoHS compliant
- Protection against dust and water splashes IP68 (in accordance with EN 60529), hermetically encapsulated
- Stainless steel
- Area of application: Measuring mass as well as compressive force
- Suitable for weighbridges, handing scales, silo scales and other types of balances, test stands, etc.
- Nominal sensitivity: 1 – 2 mV/V, depending on nominal load
- Cable length
 - [Max] ≤ 1000 kg: 3 m
 - [Max] ≥ 2000 kg: 6 m

Accessories

- Load corner for CR 1000-3P1, CR 250-3P1, CR 500-3P1, steel, incl. pressure piece, SAUTER CE P244011, **€ 600,-**
- Pressure piece for CR 1000-3P1, CR 250-3P1, CR 500-3P1, steel, SAUTER CE P244012, **€ 115,-**
- Load corner for CR 2000-3P1, steel, stainless incl. pressure piece, SAUTER CE P244021, **€ 720,-**
- Pressure piece for CR 2000-3P1, steel, stainless, SAUTER CE P244022, **€ 125,-**

STANDARD	OPTION
 IP 68	 4 DAYS
 DAkkS	 +3 DAYS
 ISO	 +4 DAYS
[Max] ≤ 500 kg/ 5 kN	

Model	Nominal load	Price excl. of VAT ex works €
KERN		
CR 60-3P1	60 kg/0,6 kN	930,-
CR 130-3P1	130 kg/1,3 kN	980,-
CR 250-3P1	250 kg/2,5 kN	890,-
CR 500-3P1	500 kg/5 kN	860,-
CR 1000-3P1	1000 kg/10 kN	860,-
CR 2000-3P1	2000 kg/20 kN	860,-

CR Y1**Load cell made from steel alloy****Technical data**

- Accuracy in accordance with OIML R60 C1
- RoHS compliant
- High precision (comprehensive error 0,05 % F.S.)
- Protection against dust and water splashes IP68 (in accordance with EN 60529), hermetically encapsulated
- Stainless steel
- Area of application: for weight, tensile and compressive force measurement
- Suitable for weight measurement as well as force and force test stands
- Force transmission via pressure piece or threaded hole
- Nominal sensitivity: 2 mV/V
- Cable length: 3 m
- Pressure piece included with delivery
- Thread for pressure piece or other force application:
 - up to 5000 kg M16×1,5,
 - from 10000 kg M32×1,5

Tip: Further details and technical data sheet as well as an extensive range of accessories can be found at www.kern-sohn.com

STANDARD	OPTION
 IP 68	 1 DAY
 DAkkS	 +3 DAYS
 ISO	 +4 DAYS
[Max] ≤ 500 kg/ 5 kN	

Model	Nominal load	Price excl. of VAT ex works €
KERN		
CR 500-1Y1	0,5 t/5 kN	270,-
CR 1000-1Y1	1 t/10 kN	270,-
CR 5000-1Y1	5 t/50 kN	270,-
CR 10000-1Y1	10 t/100 kN	430,-
CR 20000-1Y1	20 t/200 kN	430,-

**CB Q1 · CB Q2****Bending beam and shear beam load cell made from stainless steel****Technical data**

- Accuracy in accordance with OIML R60 C3
- CE and RoHS compliant
- Protection against dust and water splashes IP68/IP69K (in accordance with EN 60529), welded to create a hermetic seal
- Stainless steel
- Area of application: Measuring mass as well as compressive force in harsh environments
- Suitable for platform scales, weigh hoppers, floor scales and other weighing devices
- 4-wire connection
- Nominal sensitivity: 2 mV/V
- Cable length: 3 m
- Note: Accuracy class OIML R60 C6 or EX version on request



STANDARD			OPTION	
IP 68	IP 69K	1 DAY	+3 DAYS	+4 DAYS
[Max] ≤ 500 kg				

Model	Nominal load kg	Price excl. of VAT ex works €
KERN		
CB 5-3Q1	5	230,-
CB 10-3Q1	10	230,-
CB 20-3Q1	20	230,-
CB 30-3Q1	30	230,-
CB 50-3Q1	50	230,-
CB 75-3Q1	75	230,-
CB 100-3Q1	100	230,-
CB 150-3Q1	150	230,-
CB 200-3Q1	200	230,-
CB 250-3Q1	250	230,-
CB 300-3Q1	300	230,-
CB 500-3Q1	500	230,-
CB 750-3Q2*	750	240,-
CB 1000-3Q2*	1000	240,-
CB 1500-3Q2*	1500	240,-

1 * ONLY WHILE STOCKS LAST

**CB P1****Bending beams made from stainless steel****Technical data**

- Accuracy in accordance with OIML R60 C3
- CE and RoHS compliant
- Protection against dust and water splashes IP67 (in accordance with EN 60529), hermetically encapsulated
- Nickel-plated steel
- Area of application: Measuring mass as well as compressive force in harsh environments
- Suitable for platform scales, silo scales, bed scales and other types of scales
- 4-wire connection
- Nominal sensitivity: 3 mV/V
- Cable length: 3 m



STANDARD			OPTION	
IP 67	M	1 DAY	+3 DAYS	+4 DAYS

Model	Nominal load kg	Price excl. of VAT ex works €
KERN		
CB 100-3P1	100	114,-
CB 250-3P1	250	114,-

Accessories CB Q1 · CB Q2

- Traction device, steel, galvanised, suitable for CB Q1, SAUTER CE Q30901, **€ 85,-**
- Traction device, steel, stainless, suitable for CB Q2, SAUTER CE Q34905, **€ 90,-**
- **1** Base plate, steel, galvanised, suitable for CB Q1, SAUTER CE Q30903, **€ 100,-**
- Base plate, steel, stainless, suitable for CB Q1, SAUTER CE RQ30903, **€ 190,-**
- Base plate, steel, stainless, suitable for CB Q2, SAUTER CE Q34903, **€ 95,-**
- **1** Bearing, steel, stainless, suitable for CB Q1 5 – 50 kg, SAUTER CE Q30904, **€ 120,-** 75 – 300 kg, SAUTER CE Q30905, **€ 120,-** CB 500-3Q1, SAUTER CE Q30906, **€ 205,-**
- Bearing, steel, stainless, suitable for CB Q2, SAUTER CE Q34906, **€ 190,-**
- Load corner, steel, stainless, suitable for CB Q1, SAUTER CE RQ30907, **€ 315,-**
- Adjustable foot, steel, stainless, suitable for CB Q2, SAUTER CE Q34901, **€ 70,-**

Accessories CB P1

- Adjustable foot, steel, nickel-plated, M12 thread, suitable for CB P1, SAUTER CE P2012, **€ 27,-**
- **2** Load corner, steel, nickel-plated, suitable for CB P1, SAUTER CE P4022, **€ 195,-**
- Distance plate for bending beams CB P1 made from steel, SAUTER CE P3012, **€ 9,-**



CT Q1

Shear beam made from stainless steel

Technical data

- Accuracy in accordance with OIML R60 C3
- CE and RoHS compliant
- Protection against dust and water splashes IP68/IP69K (in accordance with EN 60529), welded to create a hermetic seal
- Stainless steel
- Area of application: Measuring mass as well as compressive force in harsh environments
- Suitable for platform scales, weigh hoppers, flush-mounted floor scales and other weighing devices
- 6-wire connection
- Nominal sensitivity: 2 mV/V
- Cable length: 5 m
- Note: EX version on request



STANDARD			OPTION	
			[Max] ≤ 500 kg	

Model	Nominal load kg	Price excl. of VAT ex works €
KERN		
CT 300-3Q1	300	220,-
CT 500-3Q1	500	220,-
CT 750-3Q1	750	220,-
CT 1000-3Q1	1000	220,-
CT 1500-3Q1	1500	220,-
CT 2000-3Q1	2000	220,-
CT 3000-3Q1	3000	435,-
CT 5000-3Q1	5000	435,-
CT 7500-3Q1	7500	570,-
CT 10000-3Q1	10000	570,-

CT P1 · CT P2

Shear beam made from stainless steel

Technical data

- Accuracy in accordance with OIML R60 C3
- CE and RoHS compliant
- Protection against dust and water splashes IP67 (in accordance with EN 60529), welded to create a hermetic seal
- Nickel-plated steel
- Area of application: Measuring mass as well as compressive force in harsh environments
- Suitable for platform scales, weigh hoppers, flush-mounted floor scales and other weighing devices
- 4-wire connection
- Nominal sensitivity: 3 mV/V
- Cable length
[Max] ≤ 1000 kg: 4 m
[Max] ≥ 1500 kg: 6 m
- CT P2: Delivery with calibrated sensitivity, when ordering several cells



STANDARD			OPTION	
			[Max] ≤ 500 kg	

Model	Nominal load kg	Price excl. of VAT ex works €
KERN		
CT 500-3P1	500	98,-
CT 1000-3P1	1000	98,-
CT 1500-3P1	1500	98,-
CT 2500-3P1	2500	119,-
CT 3000-3P1	3000	119,-
CT 5000-3P1	5000	119,-
CT 10000-3P1	10000	173,-
CT 500-3P2	500	103,-
CT 1000-3P2	1000	103,-
CT 5000-3P2	5000	124,-
CT 3000-3P2	3000	125,-
CT 10000-3P2	10000	178,-

Accessories CT Q1

- Base plate, steel, stainless, suitable for CT Q1: SAUTER CE RQ35911, **€ 200,-**
CT 3000-3Q1, CT 5000-3Q1:
SAUTER CE RQ35912, **€ 200,-**
CT 7500-3Q1, CT 10000-3Q1:
SAUTER CE RQ35919, **€ 860,-**
- Bearing, steel, stainless, suitable for CT Q1: SAUTER CE RQ35909, **€ 165,-**
CT 3000-3Q1, CT 5000-3Q1:
SAUTER CE RQ35910, **€ 320,-**
CT 7500-3Q1, CT 10000-3Q1:
SAUTER CE RQ35918, **€ 390,-**
- Load corner, steel, stainless, suitable for CT Q1: SAUTER CE RQ35902, **€ 420,-**
- Load corner, steel, stainless, suitable for CT 3000-3Q1, CT 5000-3Q1, SAUTER CE RQ35903, **€ 620,-**

Accessories CT P1 · CT P2

- Load corner, steel, stainless, suitable for CT 10000-3P1, CT 10000-3P2, SAUTER CE P40210, **€ 510,-**
- Load corner, steel, nickel-plated, suitable for CT 500-3P1, CT 1000-3P1, CT 1500-3P1, SAUTER CE P4022, **€ 195,-**
- Load corner, steel, nickel-plated, suitable for CT 2500-3P1, CT 3000-3P1, CT 5000-3P1, SAUTER CE P4025, **€ 260,-**
- Adjustable foot, steel, nickel-plated, M12 thread, suitable for CT 500-3P1, CT 1000-3P1, CT 1500-3P1, SAUTER CE P2012, **€ 27,-**
- Adjustable foot, steel, nickel-plated, M18 thread, suitable for CT 2500-3P1, CT 3000-3P1, CT 5000-3P1, SAUTER CE P2018, **€ 38,-**
- Adjustable foot, steel, nickel-plated, M24 thread, suitable for CT 10000-3P1, SAUTER CE P2024, **€ 113,-**
- Distance plate, suitable for CT 500-3P1, CT 500-3P2, CT 1000-3P1, CT 1000-3P2, CT 1500-3P1: SAUTER CE P3012, **€ 9,-**
CT 2500-3P1, CT 3000-3P1, CT 3000-3P2, CT 5000-3P1, CT 5000-3P2: SAUTER CE P3015, **€ 10,-**
CT 10000-3P1, CT 10000-3P2: SAUTER CE P30110, **€ 27,-**



CO Y1
Miniature cylindrical load cell
made from stainless steel

- Technical data**
- Accuracy in accordance with OIML G5
 - High precision (comprehensive Error 0,5 % F.S.)
 - RoHS compliant
 - Protection against dust and water splashes IP65
 - Area of application: Compressive applications
 - Suitable for weight measurement as well as force and force test stands
 - Nominal sensitivity: 1,0 – 1,5 mV/V, depending on nominal load
 - Cable length: 2 m

CO Y2
Miniature cylindrical load cell
made from stainless steel

- Technical data**
- Accuracy in accordance with OIML G5
 - High level of accuracy (Comprehensive error 0,5 % F. S.)
 - RoHS compliant
 - Protection against dust and water splashes IP65
 - Area of application: Tensile and compressive applications
 - Suitable for weight measurement as well as force and force test stands
 - Nominal sensitivity: 1,5 – 2 mV/V, depending on nominal load
 - Cable length: 2 m

CO Y5
Tension and compression force measuring cell made from stainless steel

- Technical data**
- Accuracy in accordance with OIML R60 G1
 - CE and RoHS compliant
 - Protection against dust and water splashes IP66 (in accordance with EN 60529)
 - Stainless steel
 - Very low design
 - Suitable for test stands, force gauges, automation systems, etc.
 - 4-wire connection
 - Nominal sensitivity:
CO 0.5-Y5, CO 1-Y5: 1 mV/V
CO 5-Y5, CO 10-Y5: 2 mV/V
 - Cable length: 2 m

Tip: Further details and technical data sheet as well as an extensive range of accessories can be found at www.kern-sohn.com

STANDARD

OPTION

[Max] ≤ 500 kg/ 5 kN

STANDARD

OPTION

[Max] ≤ 500 kg/ 5 kN

STANDARD

OPTION

[Max] ≥ 1 kg/ 10 N

Model	Nominal load	Price excl. of VAT ex works €
KERN		
CO 10-Y1	10 kg/100 N	170,-
CO 20-Y1	20 kg/200 N	170,-
CO 50-Y1	50 kg/500 N	170,-
CO 100-Y1	100 kg/1 kN	170,-
CO 200-Y1	200 kg/2 kN	170,-
CO 500-Y1	500 kg/5 kN	200,-
CO 1000-Y1	1000 kg/10 kN	200,-
CO 2000-Y1	2000 kg/20 kN	235,-

Model	Nominal load	Price excl. of VAT ex works €
KERN		
CO 10-Y2	10 kg/100 N	250,-
CO 20-Y2	20 kg/200 N	250,-
CO 50-Y2	50 kg/500 N	250,-
CO 100-Y2	100 kg/1 kN	310,-
CO 200-Y2	200 kg/2 kN	310,-
CO 500-Y2	500 kg/5 kN	310,-
CO 1000-Y2	1000 kg/10 kN	310,-
CO 2000-Y2	2000 kg/20 kN	345,-

Model	Nominal load	Price excl. of VAT ex works €
KERN		
CO 0.5-Y5	500 g/5 N	365,-
CO 1-Y5	1 kg/10 N	365,-
CO 5-Y5	5 kg/50 N	365,-
CO 10-Y5	10 kg/100 N	365,-



CJ P4



CJ P4PG



CJ X467



CJ X468

CJ P
Junction box for the connection of several measuring cells to an evaluation unit

Features

- Prepared for 4-wire and 6-wire measuring cells
- The robust aluminium diecast housing
- Protection against dust and water splashes IP65

CJ X
Junction box for the connection of several measuring cells to an evaluation unit

Features

- Prepared for 4-wire and 6-wire measuring cells
- CJ X467**
- Robust housing made of stainless steel with IP67 dust and spray protection

- CJ X468**
- The robust aluminium diecast housing, protection against dust and water splashes IP68

Tip: Further details and technical data sheet as well as an extensive range of accessories can be found at www.kern-sohn.com

STANDARD



Model	Number of connection options	Price excl. of VAT ex works €
KERN		
CJ P2	2	87,-
CJ P4	4	87,-
CJ P4PG	4	98,-

STANDARD



CJ X467 CJ X468

Model	Number of connection options	Price excl. of VAT ex works €
KERN		
CJ X467	4	220,-
CJ X468	4	130,-



PALLET TRUCK SCALES

Weighing and transporting – just one operation

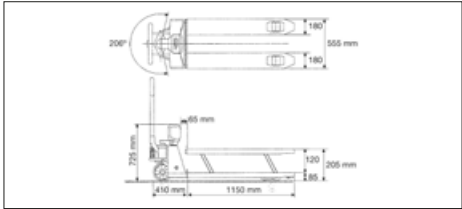
Speed up your warehouse and dispatch processes with the KERN pallet truck scales.

Get the exact weight of a load and at the same time, transport it to a specific location, all in one operation. This reduces commissioning times and avoids queues in front of fixed floor scales.

These mobile weighing solutions are space-saving and deliver reliable weighing results. Differences between given and actual weights can be determined quickly e.g. in the goods-in and out department. This uncovers inaccurate quantities, saves time and money and therefore ensures a very short amortisation period of the scales original cost.

KERN pallet truck scales are of robust industrial quality, with high-level protection against dust and water splashes, with high-contrast, easy-to-read displays as well as solid wheels and load rollers – all this helps to give you practical support in your work – day after day.

Of course, all KERN pallet truck scales can also be calibrated and delivered with a DAkkS calibration certificate (optional). This ensures the high level of accuracy of your pallet truck scale.



Pallet truck scale with complete protection against dust and water splashes IP65/67 and a memory for a container weight

Features

- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- 1 Display device: Plastic, protected against dust and water splashes IP65
- 2 Load fork: Protection against dust and water splashes IP67, temporary use in wet areas possible
- Pivot range 206°
- Castors: Solid rubber on aluminium rims
- 3 Load rollers: Tandem tyres to overcome thresholds and obstacles more easily
- Summation of weight values

Technical data

- Large LCD display, digit height 28 mm
- Ready for use: Batteries standard, 4×1.5 V AA, operating time approx. 80 h
- Permissible ambient temperature -10 °C/40 °C

Accessories

- 4 Castors made of polyurethane on aluminium rims. Ideal for light-coloured flooring as they leave less visible abrasive marks. Suitable for the current models of the pallet truck scale range KERN VHB (when retrofitting, please give the serial number of the pallet truck scale available when ordering), scope of delivery: 1 item, KERN VHB-A02, € 140,-

Note: Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD

CAL EXT

SUM

UNIT

IND IP 65

PT IP 67

LC IP 67

BATT

DMS

2 DAYS

OPTION

DAkKS +3 DAYS

Model	Weighing capacity	Readability	Linearity	Net weight	Price excl. of VAT ex works €	Options	
						DAkKS Calibr. Certificate	
	[Max] kg	[d] kg	kg	approx. kg		DAkKS KERN	€
KERN VHB 2T1	2000	1	± 2	110	1930,-	963-131	290,-



Most wanted and highly coveted: Discover the future of weighing and measuring technology with more than 5000 high-quality products. The new KERN product catalogues 2025 are available in five languages!

BALANCES AND TEST SERVICE

Get a full overview of the wide range from KERN, including our high-quality balances, test weights and services such as verification and calibration services.

MEDICAL SCALES

Our medical scales cover the full array: baby scales to personal scales, chair scales and adiposity scales through to hand grip dynamometers, pharmaceutical balances and veterinary scales, we offer the complete range.

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Discover our large range of optical instruments, such as, for example our compound, polarisation or fluorescence microscopes, or our analogue and digital refractometers.

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From force-measuring devices through to hardness measuring equipment and on to measuring cells - you can find everything you need for accurate, reliable measurements.

TEST SERVICE BROCHURE

Detailed information on all topics pertaining to the calibration and conformity assessment of balances, test weights and measuring devices.

All catalogues and information material are available for you to download as PDF files from our website:
www.kern-sohn.com/shop/en/DOWNLOADS





HANGING SCALES, CRANE SCALES

TÜV-tested safety

KERN puts great emphasis on safety. For your safety, all KERN hanging and crane scales are subject to a stringent load test in accordance with EN 13155 and (Non-fixed load lifting attachments/breakage resistance) and EN 61010-1 (Electrical safety).

As well as the classic crane scales, we also have electronic tensile dynamometers which are extremely versatile thanks to their stable, compact construction. They can, for example, be fitted into testing machines, used for checking for overload, for bracing and tensile force measurement, etc.

This type of device is ideally suited for use between shackles or with a test bench. This is where the benefit of this construction comes to the fore, as the tensile force can be applied in both directions. These compact crane scales are also particularly suitable when weighing suspended loads where space is tight.

At the core of this construction is a robust load cell. Through the absence of moving parts, these scales are practical in maintenance and wear free.

Note: DAkkS calibration and conformity evaluation for crane scales up to 12 t



Do you use your crane scales in ISO-certified processes or where verification is mandatory? Then we can produce the right calibration certificate or the relevant Declaration of Conformity for your measuring device. Thanks to a modern crane scale test unit, we can calibrate or verify crane scales and force-measuring devices from any manufacturer to a maximum load of up to 12 t or 120 kN. All the important details see DAkkS Calibration Service or directly from one of our test service specialists, we will be pleased to help you.

Quick-Finder Hanging Scales/Crane Scales

Readout	Weighing range [Max] kg	Model	Price excl. of VAT ex works €	Page						
[d] kg		KERN			For an explanation on the pictos, see the front flap					
0,005	5	HDB 5K5N	62,-	166		●	●		●	
0,005	6	HDB 6K-3XL	82,-	166		●	●		●	
0,01	10	HDB 10K10N	62,-	166		●	●		●	
0,01	15	HDB 10K-2XL	82,-	166		●	●		●	
0,01	20	HCB 20K10	115,-	167		●	●		●	
0,02	15	CH 15K20	72,-	165		●	●		●	
0,02	30	HDB 30K-2XL	82,-	166		●	●		●	
0,02	50	HCB 50K20	125,-	167		●	●		●	
0,02	60	HCD 60K-2	200,-	169		●	●		●	○
0,02 0,05	60 150	HCD 100K-2D	210,-	169		●	●		●	○
0,05	50	CH 50K50	78,-	165		●	●		●	
0,05	99	HCB 99K50	105,-	167		●	●		●	
0,05	150	HCD 100K-2	200,-	169		●	●		●	○
0,05 0,1	150 300	HCD 300K-2D	210,-	169		●	●		●	○
0,05 0,1 0,2	150 300 600	HFD 600K-1	480,-	172		●			●	●
0,05 0,1 0,2	150 300 600	HFD 600K-1IP	590,-	172		●		●	●	●
0,1	50	CH 50K100	68,-	165		●	●		●	
0,1	50	HCB 50K100	95,-	167		●	●		●	
0,1	50	HCN 50K100IP	145,-	168		●	●	●	●	
0,1	200	HCB 200K100	125,-	167		●	●		●	
0,1	300	HCD 300K-1	200,-	169		●	●		●	○
0,1	1000	HFM 1T0.1	1010,-	174		●			●	●
0,1 0,2 0,5	300 600 1500	HFD 1T-4	490,-	172		●			●	●
0,1 0,2 0,5	300 600 1500	HFD 1T-4IP	600,-	172		●		●	●	●
0,2	100	HCB 100K200	105,-	167		●	●		●	
0,2	100	HCN 100K200IP	145,-	168		●	●	●	●	
0,2	600	HFA 600K-1	680,-	170		●			●	●
0,2	600	HFC 600K-1	1070,-	171		●			●	●
0,2	600	HFD 600K-1M	650,-	172	○	●			●	●
0,2 0,5 1	600 1500 3000	HFD 3T-3	670,-	172		●			●	●
0,2 0,5 1	600 1500 3000	HFD 3T-3IP	740,-	172		●		●	●	●
0,5	200	HCB 200K500	100,-	167		●	●		●	
0,5	200	HCN 200K500IP	145,-	168		●	●	●	●	
0,5	1000	HFA 1T-4	680,-	170		●			●	●
0,5	1000	HFC 1T-4	1070,-	171		●			●	●
0,5	1500	HFD 1T-4M	660,-	172	○	●			●	●
0,5	3000	HFM 3T0.5	1040,-	174		●			●	●
0,5	5000	HFM 5T0.5	1400,-	174		●			●	●
0,5 1 2	1500 3000 6000	HFD 6T-3	850,-	172		●			●	●
0,5 1 2	1500 3000 6000	HFD 6T-3IP	920,-	172		●		●	●	●
1	500	HCB 0.5T-3	205,-	167		●	●		●	
1	3000	HFA 3T-3	740,-	170		●			●	●
1	3000	HFC 3T-3	1140,-	171		●			●	●
1	3000	HFD 3T-3M	860,-	172	○	●			●	●
1	10000	HFM 10T1	1860,-	174		●			●	●
1 2 5	3000 6000 12000	HFD 10T-3	990,-	172		●			●	●
1 2 5	3000 6000 12000	HFD 10T-3IP	1060,-	172		●		●	●	●
2	1000	HCB 1T-3	265,-	167		●	●		●	
2	5000	HFA 5T-3	820,-	170		●			●	●
2	5000	HFC 5T-3	1220,-	171		●			●	●
2	6000	HFD 6T-3M	1050,-	172	○	●			●	●
5	10000	HFA 10T-3	1290,-	170		●			●	●
5	10000	HFC 10T-3	1690,-	171		●			●	●
5	12000	HFD 10T-3M	1200,-	172	○	●			●	●

● Standard ○ Option



The classic among manual hanging scales – perfect for rapid weighing of higher loads

Features

- **1** With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- Ideal for rapid control in goods-in and goods-out
- Also essential in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- Hold function: For easy reading of the weighing result, the display can be “frozen” in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- Peak load display (peak hold)
- Hook made of steel

Technical data

- LCD display, digit height 11 mm
- **2** Tape measure, extractable, length approx. 100 cm
- Ready for use: Batteries included, 9 V block, operating time up to 20 h
- Weighing units: kg, lb, N
- Overall dimensions W×D×H 90×30×283 mm
- Net weight approx. 0,35 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- **3** Tare pan with pan beam, max. load 30 kg, details see *Accessories*, KERN CH-A01N, € 88,-

STANDARD

OPTION

Model	Weighing capacity	Readability	Price excl. of VAT ex works €	Options	
				DAKkS Calibr. Certificate DAKkS KERN	Certificate €
KERN	[Max] kg	[d] g			
CH 15K20	15	20	72,-	963-128H	124,-
CH 50K50	50	50	78,-	963-128H	124,-
CH 50K100	50	100	68,-	963-128H	124,-



Features

- ## Technical data

- ## Accessories

- 15

DAkkS
+3 DAYS

Model	Weighing capacity	Readability	Dimensions	Net weight	Price excl. of VAT	Options	
	[Max]	[d]	W×D×H	approx.	ex works	DAkkS Calibr.	Certificate
KERN	kg	g	mm	kg	€	DAkkS KERN	€
HDB 5K5N	5	5	72×25×188	0,20	62,-	963-127H	103,-
HDB 10K10N	10	10	72×25×188	0,20	62,-	963-128H	124,-
High-capacity XL-version							
HDB 6K-3XL *	6	5	101×25×203	0,25	82,-	963-128H	124,-
HDB 10K-2XL	15	10	101×25×203	0,25	82,-	963-128H	124,-
HDB 30K-2XL	30	20	101×25×211	0,25	82,-	963-128H	124,-

166 Hanging Scales/Crane Scales



Handy hanging scale for higher loads

Features

- **1** With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- Ideal for rapid control in goods-in and goods-out
- Also essential in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- Hold function: For easy reading of the weighing result, the display can be "frozen" in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- Peak load display (peak hold), Measuring frequency 5 Hz
- [Max] ≤ 200 kg: Snap link (stainless steel) with safety catch and hook (stainless steel) as standard, see larger picture

- **2** [Max] ≥ 500 kg: Reinforced version for heavy loads. Snap link and hook not included, see *Accessories*

Technical data

- LCD display, digit height 12 mm
- Hole diameter of load support, model with [Max] ≤ 200 kg: approx. 14 mm
- [Max] ≥ 500 kg: approx. 16 mm
- Weighing units: kg, lb, N
- Ready for use: Batteries included, 3×1.5 V AA, operating time up to 300 h
- Permissible ambient temperature 5 °C/35 °C

Accessories

Suitable for all models

- **3** Hook with safety catch, galvanised and lacquered cast steel, not rotatable, scope of delivery: 2 shackles, 1 connecting link, 1 hook, KERN YHA-06, **€ 140,-**
- **4** High-strength shackle, hot-dipped galvanised cast steel bracket, curved edge. Scope of delivery: 2 shackles, KERN YSC-04, **€ 60,-**

Suitable for all models with [Max] ≤ 200 kg

- Snap link (stainless steel) with safety catch, opening approx. 13 mm, KERN HCB-A01, **€ 35,-**
- Hook (stainless steel), opening approx. 29 mm, KERN HCB-A02, **€ 35,-**

Suitable for model HCB 20K10

- **5** Tare pan with pan beam, max. load 30 kg, details see *Accessories*, KERN CH-A01N, **€ 88,-**

STANDARD



OPTION



Model	Weighing capacity	Readability	Dimensions housing W×D×H mm	Net weight approx. kg	Price excl. of VAT ex works €	Options DAKKS Calibr. Certificate DAKKS KERN €	
KERN	[Max] kg	[d] g					
HCB 20K10	20	10	82×43×153	0,30	115,-	963-128H	124,-
HCB 50K20	50	20	82×43×153	0,30	125,-	963-128H	124,-
HCB 99K50	99	50	82×43×153	0,30	105,-	963-129H	145,-
HCB 50K100	50	100	82×43×153	0,30	95,-	963-128H	124,-
HCB 200K100	200	100	82×43×153	0,30	125,-	963-129H	145,-
HCB 100K200	100	200	82×43×153	0,30	105,-	963-129H	145,-
HCB 200K500	200	500	82×43×153	0,30	100,-	963-129H	145,-
HCB 0.5T-3	500	1000	82×43×153	0,40	205,-	963-130H	255,-
HCB 1T-3	1000	2000	82×48×153	0,60	265,-	963-130H	255,-



Robust, compact hanging scale with high level of protection against dust and water spray

Features

- **1** With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- **2** Housing stainless steel, IP65-protected against dust and water splashes
- Ideal for rapid control in goods-in and goods-out
- Also essential in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- Hold function: For easy reading of the weighing result, the display can be “frozen” in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- Peak load display (peak hold)
- Internal measuring frequency: 5 Hz
- Snap link (stainless steel) with safety catch as standard
- Hook (stainless steel) as standard

Technical data

- LCD display, digit height 12 mm
- **3** Second display on the back of the balance, see larger picture
- Hole diameter of load support ca. 14 mm
- Ready for use: Batteries included, 2×1.5 V AA, operating time up to 200 h
- Weighing units: kg, lb, N
- Overall dimensions W×D×H 96×48×179 mm
- Net weight approx. 0,50 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- Snap link (stainless steel) with safety catch, opening approx. 13 mm, KERN HCB-A01, € 35,-
- Hook (stainless steel), opening approx. 29 mm, KERN HCB-A02, € 35,-

15

STANDARD

OPTION

+3 DAYS

Model	Weighing capacity	Readability	Price excl. of VAT ex works €	Options	
				DAkkS Calibr. Certificate DAkkS KERN	€
KERN	[Max] kg	[d] g			
HCN 50K100IP	50	100	145,-	963-128H	124,-
HCN 100K200IP	100	200	145,-	963-129H	145,-
HCN 200K500IP	200	500	145,-	963-129H	145,-



High-resolution crane scale for loads up to 300 kg

Features

- **1** With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- Fully-equipped crane scale for low to medium load ranges. The solid design guarantees that extra level of safety (TÜV tested). Thanks to the large LCD display and the remote control which is delivered as standard, it can also be operated safely from a distance and results can be read off
- Thanks to battery operation/rechargeable battery operation (optional), compact, light-weight construction, it is suitable for the use in several locations
- Battery level indicator, LED visual display

- Hold function: For easy reading of the weighing result, the display can be “frozen” in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- Tare: Resets the display to “0” when there is a load on the scale. Now removed or added loads are directly displayed
- Large high-contrasted display that is easy to read
- Standby function: display automatically switched off after 5 min without a change of load. Automatic activation with the touch of a key
- Hook with safety catch, revolving
- Shackle and safety catch made of nickel-plated steel
- **2** Infrared remote control standard, range up to 20 m, W×D×H 65×24×100 mm, batteries included

Technical data

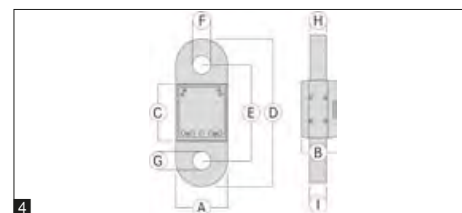
- Backlit LCD display, digit height 28 mm
- Ready for use: Batteries included, 4×1.5 V AA, operating time up to 100 h
- Precision: 0,2 % of [Max]
- Weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/40 °C

Accessories

- Internal rechargeable battery pack for load receptor, operating time up to 50 h without backlight, charging time approx. 12 h. Weighing is not possible during the charging process, KERN HCD-A01, € 50,-

STANDARD						OPTION	
CAL EXT	UNIT	MOVE	BATT	DMS	1 DAY	ACCU	DAkkS +3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Net weight approx. kg	3 Dimensions							Price excl. of VAT ex works €	Options	
				A mm	B mm	C mm	D mm	E mm	F mm	G mm		DAkkS Calibr. Certificate	DAkkS KERN
KERN													
HCD 60K-2	60	20	1,2	150	79,3	97,7	276,1	246,5	26	18	200,-	963-129H	145,-
HCD 100K-2	150	50	1,2	150	79,3	97,7	276,1	246,5	26	18	200,-	963-129H	145,-
HCD 300K-1	300	100	1,2	150	79,3	97,7	276,1	246,5	26	18	200,-	963-129H	145,-
Multi-division balance, with increasing or decreasing load, it switches automatically to the next largest or smallest weighing range [Max] and readout [d].													
HCD 100K-2D	60 150	20 50	1,2	150	79,3	97,7	276,1	246,5	26	18	210,-	963-129H	145,-
HCD 300K-2D	150 300	50 100	1,2	150	79,3	97,7	276,1	246,5	26	18	210,-	963-129H	145,-



Compact crane scale with integrated display can also be used for tensile force measurement

Features

- **1** With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- With its high-quality finish, low weight and compact dimensions, this crane scale (tensile force gauge) is an essential device for industrial use
- Because of its compact design it is also ideally suited for installation in systems where space is limited, etc.
- Ideally suited for determining weight quickly while loading and unloading
- Peak load display (peak hold)
- Hold function: For easy reading of the weighing result, the display can be "frozen" by pressing the Hold key
- Tare: Resets the display to "0" when there is a load on the scale. Now removed or added loads are directly displayed

Technical data

- Large backlit LCD display, digit height 23 mm
- Material and design of housing/load support, models with [Max] ≤ 3 t: aluminium/stainless steel bushing [Max] > 3 t: steel/steel
- Rechargeable battery pack integrated, as standard, operating time up to 30 h without backlight, charging time approx. 12 h
- Optional battery operation, 3×1.5 V AA not included in scope of delivery, operating time up to 30 h
- Precision: 0,2 % of [Max]
- Internal measuring frequency: 60 Hz
- Weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

Accessories

- **2** High-strength shackle, hot-dipped galvanised cast steel bracket, bow shaped. Scope of delivery: 2 shackles with lacquered screw bolts, suitable for models with [Max] ≤ 5 t: KERN YSC-01, **€ 125,-** [Max] = 10 t: KERN YSC-02, **€ 270,-**
- **3** Hook with safety catch, galvanised and lacquered cast steel, not rotatable, scope of delivery: 2 shackles, 1 connecting link, 1 hook [Max] ≤ 1 t: KERN YHA-01, **€ 210,-** [Max] = 3 t: KERN YHA-02, **€ 230,-** [Max] = 5 t: KERN YHA-03, **€ 300,-** [Max] = 10 t: KERN YHA-04, **€ 560,-**

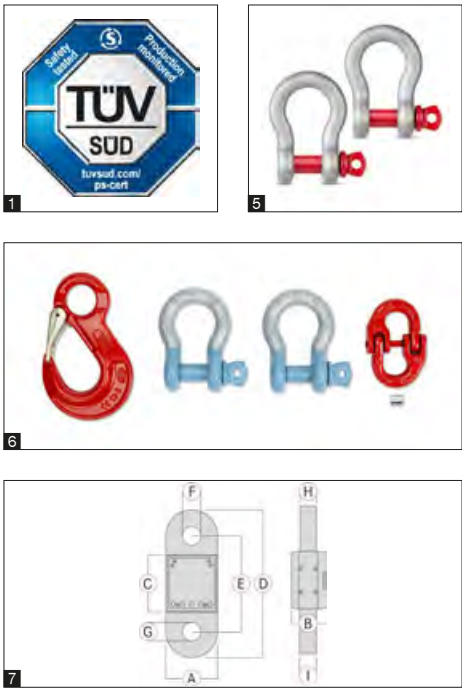
STANDARD



OPTION



Model	Weighing capacity [Max] kg	Readability [d] g	Net weight approx. kg	4 Dimensions									Price excl. of VAT ex works €	Options DAkKS Calibr. Certificate	
KERN				A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm		DAkKS KERN	€
HFA 600K-1	600	200	1,8	90	62	100	255	165	27	27	30	30	680,-	963-130H	255,-
HFA 1T-4	1000	500	1,8	90	62	100	255	165	27	27	30	30	680,-	963-130H	255,-
HFA 3T-3	3000	1000	2,0	90	62	100	255	165	27	27	30	30	740,-	963-132H	650,-
HFA 5T-3	5000	2000	4,0	90	62	100	255	165	30	30	30	30	820,-	963-132H	650,-
HFA 10T-3	10000	5000	6	90	72	100	275	185	40	40	40	40	1290,-	963-133H	910,-



Compact crane scale for use in harsh environmental conditions or where space is limited, with convenient hand-held terminal

Features

- 1 With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- With its high-quality finish, low weight and compact dimensions, this crane scale (tensile force gauge) is an essential device for industrial use
- Because of its compact design it is also ideally suited for installation in systems where space is limited, etc.
- Peak load display (peak hold)
- Hold function: For easy reading of the weighing result, the display can be “frozen” by pressing the Hold key
- Tare: Resets the display to “0” when there is a load on the scale. Now removed or added loads are directly displayed
- Display device with integrated radio module, which the user can carry around with him, thanks to the convenient hand strap, standard. In this way the weighing data can always be read off the display device by the user, even

when the user is a long way from the load receptor (force gauge) or under poor lighting conditions. Range up to 20 m. All functions can be selected

Technical data

- Material and design of housing/load support, models with [Max] ≤ 3 t: aluminium/stainless steel bushing [Max] > 3 t: steel/steel
- Precision: 0,2 % of [Max]
- Internal measuring frequency: 10 Hz
- Weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

Display device

- Large backlit LCD display, digit height 23 mm
- 2 Rechargeable battery pack integrated, as standard, operating time up to 30 h without backlight, charging time approx. 12 h
- Dimensions of display device W×D×H 88×64×256 mm

Load receptor

- 3 Internal rechargeable battery pack included with the delivery, Operating time up to 35 h without backlight, charging time approx. 8 h
- 4 Optional battery operation, 3×1.5 V AA not included in scope of delivery, operating time up to 40 h

Accessories

- 5 High-strength shackle, hot-dipped galvanised cast steel bracket, bow shaped. Scope of delivery: 2 shackles with lacquered screw bolts, suitable for models with [Max] ≤ 5 t: KERN YSC-01, € 125,- [Max] = 10 t: KERN YSC-02, € 270,-
- 6 Hook with safety catch, galvanised and lacquered cast steel, not rotatable, scope of delivery: 2 shackles, 1 connecting link, 1 hook [Max] ≤ 1 t: KERN YHA-01, € 210,- [Max] = 3 t: KERN YHA-02, € 230,- [Max] = 5 t: KERN YHA-03, € 300,- [Max] = 10 t: KERN YHA-04, € 560,-

STANDARD

CAL EXT

SUM

UNIT

BATT

ACCU

MULTI

DMS

1 DAY

OPTION

DAKKS

+3 DAYS

Model	Weighing capacity [Max] kg	Readability [d] g	Net weight approx. kg	7 Dimensions									Price excl. of VAT ex works €	Options	
				A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm		DAkkS Calibr. DAkkS KERN	Certificate €
KERN															
HFC 600K-1	600	200	1,8	90	62	100	255	165	27	27	30	30	1070,-	963-130H	255,-
HFC 1T-4	1000	500	1,8	90	62	100	255	165	27	27	30	30	1070,-	963-130H	255,-
HFC 3T-3	3000	1000	2,2	90	62	100	255	165	27	27	30	30	1140,-	963-132H	650,-
HFC 5T-3	5000	2000	4,0	90	62	100	255	165	30	30	30	30	1220,-	963-132H	650,-
HFC 10T-3	10000	5000	6	90	72	100	275	185	40	40	40	40	1690,-	963-133H	910,-



KERN HFD/HFD-IP



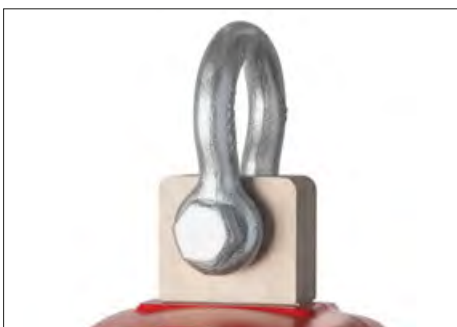
KERN HFD-M



Robust, high-resolution crane scale up to 12 t, also with optional verification or protection type IP67



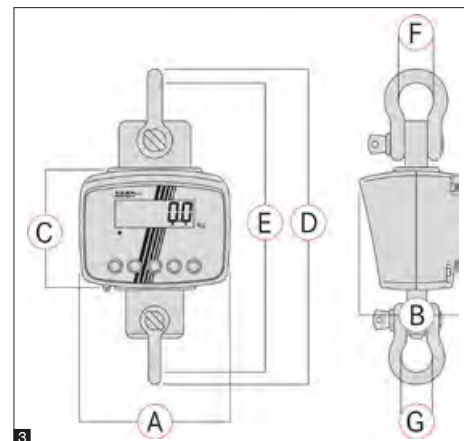
High mobility: thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department, etc.)



Solid shackles, non-revolving



Radio remote control standard. Range up to 20 m. All functions can be selected (excl. ON/OFF). W×D×H 65×24×100 mm. Batteries included, 1×12V, 23A



Features

- With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- Because of its stable construction and robust design, it is ideal for continuous use in industrial environment
- Tare: Resets the display to "0" when there is a load on the scale. Now removed or added loads are directly displayed

KERN HFD/HFD-IP

- Hold function: the weight display is "frozen" when the Hold button is pressed

KERN HFD-IP

- The models with IP add-on have special spray and dust protection to IP67 and because of this they are ideal for use in harsh environments

KERN HFD-M

- The models with M add-on can be verified optionally and because of this they are ideal for use in verified applications such as, for example, calculation of a total price, based on weight
- Will support you when weighing freight in a SOLAS compliant manner
- Sleep function: when the sleep button is pressed, the weight display is switched off, but the value remains stored. This can extend the battery life

Technical data

- Superior display size: digit height 30 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- Rechargeable battery pack integrated, as standard, operating time up to 70 h without backlight, charging time approx. 12 h. Battery pack accessible from the outside, which means it is easy to replace
- Precision: 0,2 % of [Max]
- Weighing units: kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Charging station for external battery charging, scope of delivery: charging station, exchangeable battery, mains adapter, KERN HFD-A07, € 120,-
- Hook with safety catch, cast steel, galvanised and lacquered, non-revolving, suitable for models
[Max] ≤ 1t: KERN HFD-A01, € 50,-
[Max] = 3t: KERN HFD-A02, € 70,-
[Max] ≥ 6t: KERN HFD-A03, € 130,-

STANDARD



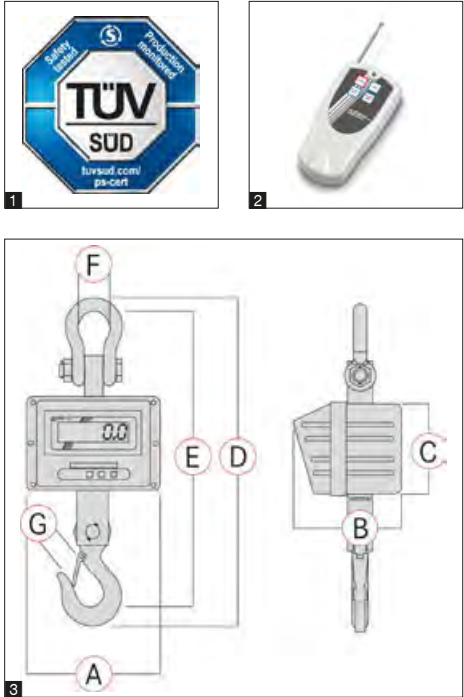
OPTION



FACTORY



Model	Weighing capacity	Readability	Net weight approx.	③ Dimensions						Price excl. of VAT ex works €	Verification	Options	DAkkS Calibr. Certificate
	[Max] kg	[d] g	kg	A mm	B mm	C mm	D mm	E mm	F=G mm		KERN M	€	DAkkS KERN €
Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range													
HFD 600K-1	150 300 600	50 100 200	9	194	129	160	422	384	50,8	480,-	-	-	963-130H 255,-
HFD 1T-4	300 600 1500	100 200 500	9	194	129	160	422	384	50,8	490,-	-	-	963-130H 255,-
HFD 3T-3	600 1500 3000	200 500 1000	10	194	129	160	457	413	58	670,-	-	-	963-132H 650,-
HFD 6T-3	1500 3000 6000	500 1000 2000	15	194	129	160	518	467	68,3	850,-	-	-	963-132H 650,-
HFD 10T-3	3000 6000 12000	1000 2000 5000	22	194	129	160	584	521	82,5	990,-	-	-	963-133H 910,-
Protection against dust and water splashes IP67													
HFD 600K-1IP	150 300 600	50 100 200	9	194	129	160	422	384	50,8	590,-	-	-	963-130H 255,-
HFD 1T-4IP	300 600 1500	100 200 500	9	194	129	160	422	384	50,8	600,-	-	-	963-130H 255,-
HFD 3T-3IP	600 1500 3000	200 500 1000	10	194	129	160	457	413	58	740,-	-	-	963-132H 650,-
HFD 6T-3IP	1500 3000 6000	500 1000 2000	15	194	129	160	518	467	68,3	920,-	-	-	963-132H 650,-
HFD 10T-3IP	3000 6000 12000	1000 2000 5000	22	194	129	160	584	521	82,5	1060,-	-	-	963-133H 910,-
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.													
HFD 600K-1M	600	200	9	194	129	160	422	384	50,8	650,-	965-130H	150,-	963-130H 255,-
HFD 1T-4M	1500	500	9	194	129	160	422	384	50,8	660,-	965-130H	150,-	963-130H 255,-
HFD 3T-3M	3000	1000	10	194	129	160	457	413	58	860,-	965-132H	235,-	963-132H 650,-
HFD 6T-3M	6000	2000	15	194	129	160	518	467	68,3	1050,-	965-132H	235,-	963-132H 650,-
HFD 10T-3M	12000	5000	20	194	129	160	584	521	82,5	1200,-	965-133H	355,-	963-133H 910,-



Robust industrial crane scale with bright LED display for optimum reading in unfavourable ambient conditions

Features

- 1 With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- Professional device for robust applications in production, quality control, logistics etc. Because of its stable construction and robust design, it is ideal for continuous use in industrial environment
- Thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations
- Adaptation of the readout to unstable environmental conditions at the push of a button (you can select between 3 levels)
- Hold function: For easy reading of the weighing result, the display can be “frozen” by pressing the Hold key

- Tare: Resets the display to “0” when there is a load on the scale. Now removed or added loads are directly displayed
- Hook with safety catch, revolving
- 2 Radio remote control standard. Range up to 20 m. All functions can be selected (excl. ON/OFF). W×D×H 48×10×95 mm. Batteries included, 12 V, Typ 23A

Technical data

- Superior display size: digit height 30 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- Rechargeable battery pack integrated, as standard, operating time up to 50 h without backlight, charging time approx. 14 h
- Precision: 0,2 % of [Max]
- Weighing units: kg
- Permissible ambient temperature 0 °C/40 °C

15

STANDARD

CAL EXT

ACCU

MULTI

DMS

1 DAY

2 DAYS

OPTION

DAKKS

+3 DAYS

HFM

10T1

Model	Weighing capacity [Max] kg	Readability [d] g	Net weight approx. kg	3 Dimensions							Price excl. of VAT ex works €	Options	
				A mm	B mm	C mm	D mm	E mm	F mm	G mm		DAKKS KERN	Certificate €
KERN HFM 1T0.1	1000	100	14	270	200	175	610	540	68	40	1010,-	963-130H	255,-
HFM 3T0.5	3000	500	16	270	200	175	610	540	74	40	1040,-	963-132H	650,-
HFM 5T0.5	5000	500	18	300	230	190	730	650	74	55	1400,-	963-132H	650,-
HFM 10T1	10000	1000	34	300	230	190	840	750	92	60	1860,-	963-133H	910,-

16



ACCESSORIES, SOFTWARE

In our large selection of accessories you will discover everything you need to complement your KERN devices in the best way and make your workflows even more efficient.

As well as high-quality printers, interface cables and numerous adapters, you will also find different software solutions and many other products which will guarantee stable performance.

Visit our webshop as well to see the complete range of accessories and get detailed information about each product.



Matrix Needle Printer
KERN 911-013*

For printing weighing results on normal paper, which is ideal for long-term archiving.



Matrix Needle Printer
KERN YKN-01*

For printing weighing results on normal paper, which is ideal for long-term archiving.



Thermal Printer
KERN YKC-01

Reliable thermal printer for standard applications.

Technical data

- Needle print
- Speed: 1,8 line/s
- Max. 40 characters per line
- Width of the paper strip: 57 mm wide
- Operation via mains adapter 230 V/50 Hz (standard EU), as standard
- Dimensions housing: W×D×H 100×180×106 mm
- Not suitable for KERN PNS/PNJ, PES/PEJ ranges
- Interface cable not included with delivery

Price printer without interface cable, KERN 911-013, € 480,-

Accessories

- Paper rolls (10 pcs.), KERN 911-013-010, € 40,-
- Power Adapter, EU/GB/US/CH/AUS, KERN YKA-42, € 85,-

Technical data

- Needle print
- Speed: 1 line/s
- Max. 16 characters per line
- Width of the paper strip: 44 mm wide
- Operation via mains adapter 230 V/50 Hz (standard EU/GB/US), as standard
- Dimensions housing: W×D×H 158×106×40 mm
- Interface cable not included with delivery

Price printer without interface cable, KERN YKN-01, € 310,-

Accessories

- Paper rolls (5 pcs.), KERN YKN-A01, € 38,-

Technical data

- Thermal print
- Speed: 300 mm/s
- Max 58 characters per line
- Supported paper widths: 80 mm (roll)
- Operation via mains adapter 230 V/50 Hz standard EU, as standard
- Interfaces: RS-232
- Dimensions housing W×D×H 125×125×150 mm
- Interface cable not included with delivery

Price printer without interface cable, KERN YKC-01, € 310,-

Accessories

- Paper rolls (5 pcs.), KERN YKC-A10, € 50,-

! * ONLY WHILE STOCKS LAST

STANDARD



STANDARD



STANDARD



Important note for printer orders:

Please state your balance model when ordering, so that the printer can be preconfigured in the factory to suit your balance.

Individual header data:
For printers **KERN 911-013 and YKN-01** the free software **KERN SHM-01** (see www.kern-sohn.com) can be used to print 4 header lines on the printout (see marking on balance).
Compatible models: KERN 440, DE, FCB, PCD.



Dot Matrix Printer KERN YKG-01

High-quality dot matrix printer

Flexible and rapid dot matrix printer for retail, the catering trade and for restaurant kitchens. To print the weights on normal paper, which is ideal for long-term archiving. This model has an interchangeable interface and you will be impressed by how easy it is to replace the paper and ribbon

Technical data

- Needle print
- Speed: 4,7 line/s
- Max. 42 characters per line
- Supported paper widths: 58 mm, 70 mm, 76 mm (roll)
- Operation via mains adapter 230 V/50 Hz standard EU, as standard
- Interfaces: RS-232, cash drawer connection, bidirectional parallel
- Interface cable not included with delivery
- Dimensions housing W×D×H 160×248×139 mm
- Not suitable for KERN DAB, DBS, DLB, FKT, RFE ranges

Price printer without interface cable,
KERN YKG-01, **€ 590,-**

Accessories

- Paper rolls (5 pcs.), KERN YKG-A01, **€ 30,-**

Thermal Printer KERN YKH-01

High-quality thermal printer –
fast, robust, user-friendly

Robust, low-maintenance thermal printer for retail, the catering trade and for restaurant kitchens. Extremely compact and long-lasting. Thanks to the waterproof switch cover it is particularly suitable for use under tough, loud environmental conditions

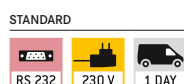
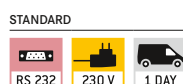
Technical data

- Thermal print
- Speed: 2 line/s
- Max 64 characters per line
- Supported paper widths: 58 mm, 80 mm (roll)
- Operation via mains adapter 230 V/50 Hz standard EU, as standard
- Interfaces: RS-232
- Interface cable not included with delivery
- Dimensions housing W×D×H 140×199×146 mm
- Not suitable for KERN DAB, DBS, DLB, FKT, RFE ranges

Price printer without interface cable,
KERN YKH-01, **€ 420,-**

Accessories

- Paper rolls (5 pcs.), KERN YKH-A01, **€ 30,-**



Important note for printer orders:

Please state your balance model when ordering, so that the printer can be preconfigured in the factory to suit your balance.

Individual header data:

For printers **KERN 911-013** and **YKN-01** the free software **KERN SHM-01** (see www.kern-sohn.com) can be used to print 4 header lines on the printout (see marking on balance).

Compatible models: KERN 440, DE, FCB, PCD.



Tip:

EasyTouch Individual Print

The print product (e.g. labels) can be individually designed. The size of the print area as well as the placement of the print elements can be customized. The barcode function enables the printing of each element as a barcode or QR code.

For further details, see *EasyTouch*



Example printouts with ET Individual Print

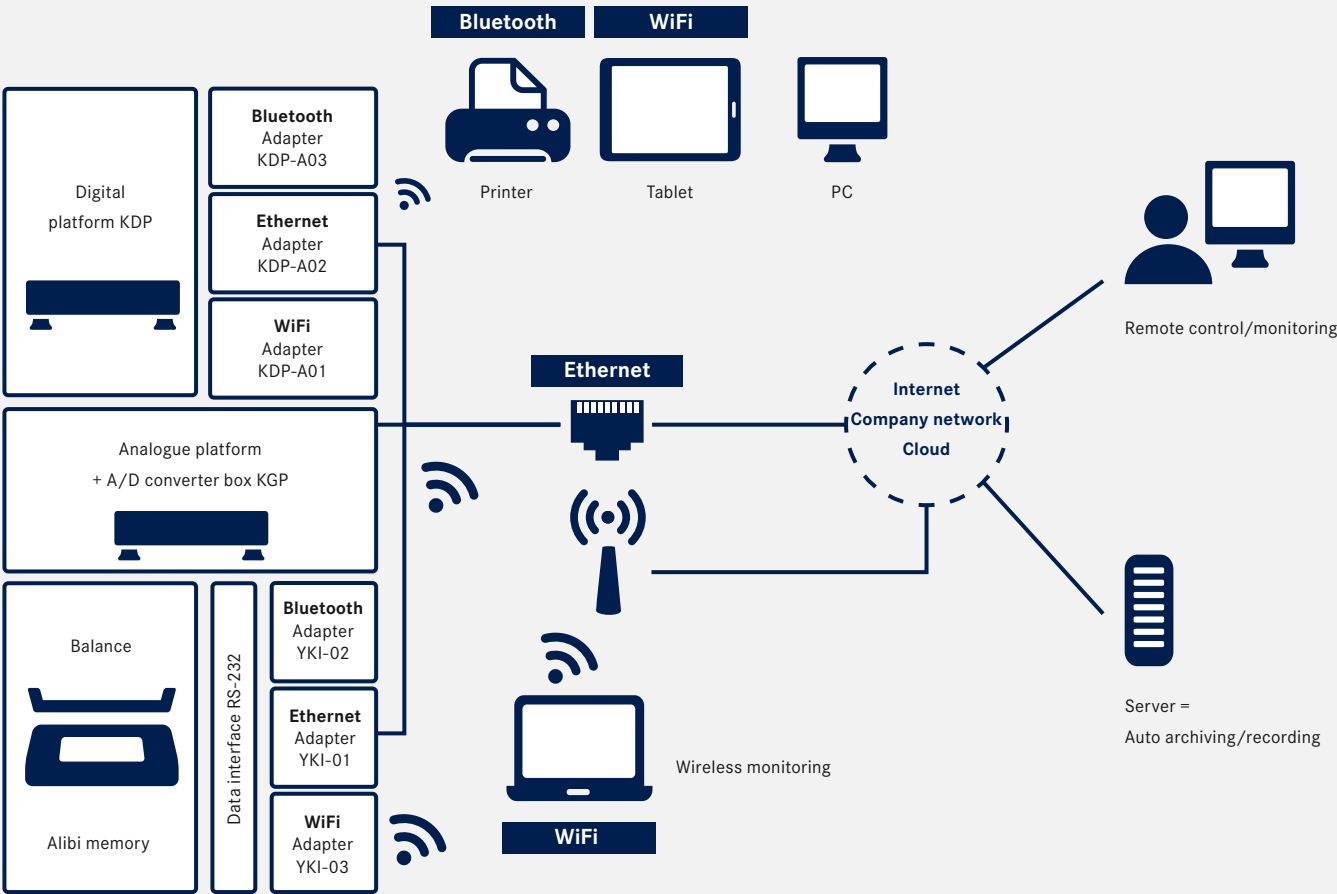
Interface Cable for RS-232

For direct connection to a printer or PC, cable length approx. 1.5 m.
The interface parameters can be set using the balance keypad.

Tip:
The interface cable is **free of charge** if you purchase balance, printer or Ethernet-/WiFi-/Bluetooth adapter together.

Printer, ...		PC, YKI-01, -02, -03 KERN	911-013, YKN-01 KERN	YKG-01, YKH-01 KERN	Price cable excl. of VAT ex works €
Balance					
440, 572, 573, ALJ, ALS, ALT-B, DE-D, EMB-V, FKA, FKB, KB, PCB, PCD, PLJ, PLS, KDP	CDS, CKE, FCB, DS, FKB-A, (until year of construction 2022)		572-926		50,-
EOC, IOC, BID, KIB-T, KIB-TM, UID			EOC-A12		50,-
YKV-01, KGP		572-926	-		50,-
ABJ-NM, ABS-N			ACS-A01		115,-
KFB-TM, KFN-TM, NFC (until year of construction 2019)	PFB, SFB, UFB, UFC, NFC		CFS-A01		50,-
CPB, EWJ, KFS-TM, PFB, PFB-M			CFS-A01		
CFS, CCS, KFS-TM, IFS (from year of production 2015)		-	CFS-A01	-	
ABT-NM, PBJ, PBS			770-926		
DBS, DLB			572-926		
DAB			MLB-A05		
ABP, KFS-T			MLB-A05		
ADB, ADJ, ACS, ACJ, PNS/PNJ			MLB-A05		
HFT			KFF-A01		
EG-N, EW-N			474-926		
PES/PEJ					
CCA			CCA-A01		50,- (300,-)
RFE, RPB (not compatible with YKN-01)		-	CFS-A01	CFS-A01	
FES/FEJ, PWS			MLB-A05 (PWS-A02)		

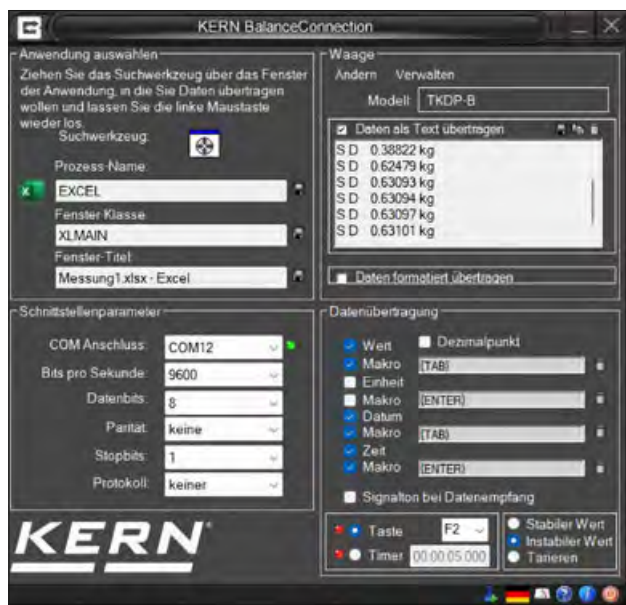
With products from KERN you are ready to face the challenges of Industry 4.0



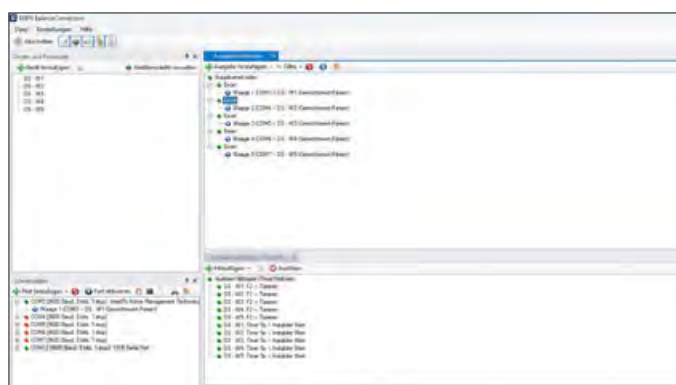
We will help to combine industrial production with the latest information and communication technology, with the aim of improving quality, reducing costs and using time and resources more efficiently so that you are able to react to future requirements in a more flexible manner. You will benefit from our uniform data protocol combined with our BalanceConnection 4.0 data software, for details please see page 179/180.

KERN Software BalanceConnection SCD-4.0

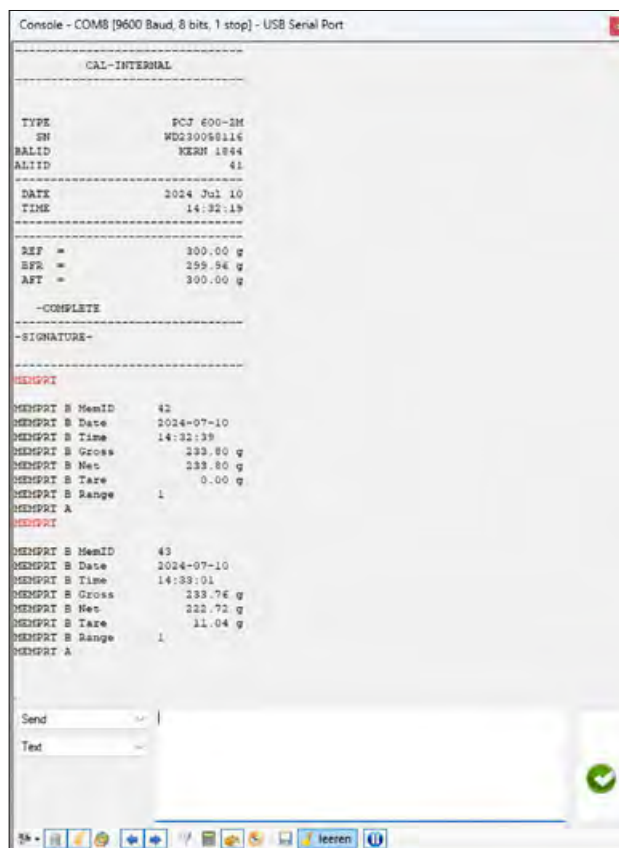
Flexible recording or transfer of measurements, particularly to Microsoft® Excel



Programme start and quick configuration of the RS232/USB interface



Full overview of devices, outputs, queries, interfaces, etc. directly in the output window



Query measurement results, calibration protocol or alibi memory data via remote control commands. Can be saved as a text file.

Do you have any questions?

The team from our Industry 4.0 centre of expertise will be happy to help: e-mail: etsales@kern-sohn.com

Tip: Or download a free demo version of the BalanceConnection software: <http://balanceconnection.kern-sohn.com/demo>

Features

- For operating systems Windows 10, 11, .NET Framework 4.8.1 required
- Supports balances measuring devices with RS 232, RS 485, Bluetooth, LAN or WiFi network (TCP/UDP/IP)
- Highly flexible formatting of the output (any order, formatting and rounding), particularly recording of date and time for every value transferred, if required
- Any number of devices/interfaces can be connected, as well as simultaneous and synchronised recording of several balances
- Key-activated or time-controlled interrogation of measurements or trigger of device functions, also for continuous recording
- The interface protocols for KERN balances are already predefined (standard configuration)

- Compatible interface cable included when you order a KERN balance at the same time
- Many different transfer and recording options:
 - Microsoft® Excel/Access/Word in the foreground or background
 - Other Windows applications (through key simulation), e.g. shipping software or ERP system (SAP, Sage, etc.)
 - File recording (e.g. as text or CSV file)
 - Print out on text or label printer
 - Screen output such as large display, line chart (drying curve for moisture analyser), histogram, etc.

Benefits

- Typing errors during e.g. manual transfer are avoided
- Automatic recording, e.g. for long-term tests
- Supports GLP-compliant processes
- Can be used across different branches and applications
- Also available immediately as a download license
- Scope of supplies:
 - Download link for 1 license, KERN SCD-4.0-DL, € 210,-

KERN Software BalanceConnection SCD-4.0

Professional and highly flexible recording or transmission of measured values, in particular also to Microsoft® Excel or Access

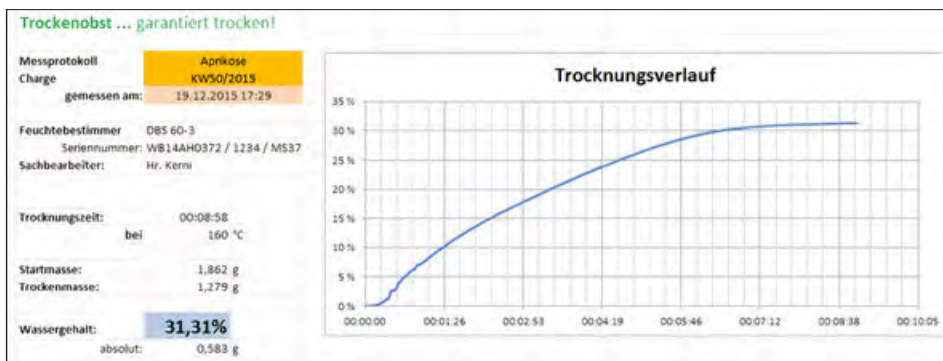
Soll	Ist	Datum / Uhrzeit	Differenz	Abweichung	Gesamt
200,47 g	200,47 g	2023-05-07 12:13	0,47 g	0,23%	200,47 g
411,21 g	411,21 g	2023-05-07 12:15	11,21 g	2,80%	611,68 g
1.002,39 g	1.002,39 g	2023-05-07 12:15	2,39 g	0,24%	1.614,07 g
4,9993 g	4,9993 g	2023-05-07 12:16	-0,0007 g	-0,01%	1.619,0693 g
0,9984 g	0,9984 g	2023-05-07 12:16	-0,0016 g	-0,16%	1.620,0677 g
0,0011 g	0,0011 g	2023-05-07 12:17	0,0001 g	10,00%	1.620,0688 g

Easy transfer and editing of measuring results e.g. in Microsoft® Excel

Do you have any questions?

The team from our Industry 4.0 centre of expertise will be happy to help:
e-mail: etsales@kern-sohn.com

Tip: Or download a free demo version of the BalanceConnection software: <http://balanceconnection.kern-sohn.com/demo>



Measurement protocol with moisture analysis progression diagram

Features

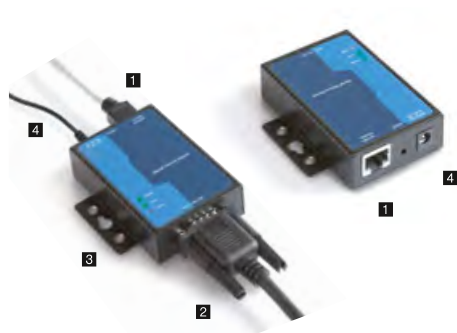
- For operating systems Windows 10, 11, .NET Framework 4.8.1 required
- Supports balances measuring devices with RS 232, RS 485, Bluetooth, LAN or WiFi network (TCP/UDP/IP)
- Highly flexible formatting of the output (any order, formatting and rounding), particularly recording of date and time for every value transferred, if required
- Any number of devices/interfaces can be connected, as well as simultaneous and synchronised recording of several balances
- Key-activated or time-controlled interrogation of measurements or trigger of device functions, also for continuous recording
- The interface protocols for KERN balances are already predefined (standard configuration)
- Compatible interface cable included when you order a KERN balance at the same time
- Many different transfer and recording options:
 - Microsoft® Excel/Access/Word in the foreground or background
 - Other Windows applications (through key simulation), e.g. shipping software or ERP system (SAP, Sage, etc.)
 - File recording (e.g. as text or CSV file)
 - Print out on text or label printer
 - Screen output such as large display, line chart (drying curve for moisture analyser), histogram, etc.

Additional features of the PRO version

- ODBC/SQL databases such as SQL Server or MySQL
- Transfer to HTTP Webservices/Web forms
- Histogram
- Enables the connection of medical balances to practice EDP systems using the device data transfer protocol (GDT) and also the HL7 protocol
- Implementation of programs/scripts using freely-definable command lines
- Command sequences
- Defining the conditions for specific events and the reaction to these events
- Filter for stability recognition (configurable value storage)
- Central configuration repository, e.g. on the network
- On-screen displays with configurable user interface for flexible balance operation

Benefits

- Ideal software where weighing data which has been collected needs to be transferred to a Windows PC
- Particularly suitable for professional integration of weighing systems into existing networks where there is a high demand for automated data transfer and further processing, for integration of databases
- Automatic recording, e.g. for long-term tests
- Supports GLP-compliant processes
- Can be used across different branches and applications
- Any number of balances can be used on one PC/workstation per licence
- Also available immediately as a download licence
- Scope of supplies: Download link for 1 License, KERN SCD-4.0-PRO-DL, **€ 380,-**



RS-232/Ethernet Adapter KERN YKI-01

Technical data

Adapter to connect balances, force measuring devices etc. with an RS-232 interface **2** to an IP-based Ethernet network **1**. The adapter allows direct integration of measuring devices into most company networks, with automatic configuration using DHCP or statistical IP allocation. You can access the current measuring data at any time from within the whole network, without having to use additional cables. The adapter supports a wide range of configurational options using the enclosed administration software or by the web interface. The driver delivered with the goods allows you to access the measuring device with existing, non-network-compatible applications using a virtual COM port. Compatible with KERN BalanceConnection software. DIN track mount **3** or free-standing. Scope of delivery: RS-232 Ethernet adapter with 1x Port RS-232 **1**, mains adapter **4**, CD (driver, software, operating instructions), adhesive feet

KERN YKI-01, € 380,-



RS-232/Bluetooth Adapter KERN YKI-02

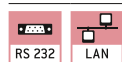
Technical data

Adapter for the wireless connection of balances, force measuring devices etc. with an RS-232 interface to Bluetooth devices, such as Bluetooth printers, tablets, laptops, Smartphones etc. In this way, where there is a physical separation or a large distance between the devices, the weighing data from one or several balances can be easily sent without cable and printed on a Bluetooth printer or transferred to a Bluetooth device (you would need the relevant software on the Bluetooth device, not included with the delivery). The compact adapter with its attractive design can usually be connected directly to the balance **1**, e.g. an additional interface cable would not be necessary. Bluetooth adapter will be powered by the balance (if compatible) or with the mains adapter which is supplied as standard **2**. Range up to 100 m outside, depending on obstacles, such as, walls, the sensitivity and type of antenna of the receiver. Intersections of sending and receiving lines using the DCE/DTE switch **3**. Compatible with KERN Software BalanceConnection.

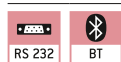
Scope of delivery: RS-232/Bluetooth adapter, mains adapter (EU/GB/US/AUS/CH) **2**, USB-A to Mini-USB-B cable **4**, gender changer **5**, driver CD,

KERN YKI-02, € 380,-

STANDARD



STANDARD



Note: To connect to your network, you will need information from your network administrator. We recommend discussing connecting your device into your network with the administrator before you place your order.

Note: If you order a KERN balance at the same time, then the interface cable is **free of charge** (please specify balance model).



Large Display KERN YKD-A02

Technical data

With superior display size, digit height 3" (76 mm). Luminescent, red LED display for easy reading of weight, even from a distance or under poor lighting conditions. 6 segments, mains connection as standard (230 V, EU/GB), connection using RS-232 data interface, dimensions W×D×H 541×55×180 mm.

Suitable for serie UFA

KERN YKD-A02, **€ 310,-**



Signal Lamp KERN CFS-A03

Technical data

Signal lamp for visual support of weighing with tolerance range. Three-colour LED, red, green, yellow. Power supply via balance using RS-232. Total dimensions W×D×H 100×180×300 mm

Suitable for series BID, CDS, CKE, CPB-N, DS, FCB, FKB, IFS, IFC, IOC, IXC, KFB-TM, KFN-TM, KIB-TM, NFC, SFB, SXC, UFA, UFC

KERN CFS-A03, **€ 310,-**



Power Supply Adapter Set KERN YKA-02

Technical data

From standard EU to GB/US/AUS/CH etc. Four pieces. Ideal for devices with Class II protection (not earthed). Ideal for Euro moulded plug,

KERN YKA-02, **€ 35,-**



2nd RS-232 Data Interface KERN CFS-A04

Technical data

Separate Y cable, e.g. for simultaneous connection of a printer and a signal lamp.

Suitable for series CFS, CPB-N, KFB-TM, UFA, SFB,

KERN CFS-A04, **€ 38,-**



RS-232/USB Adapter KERN AFH 122

Technical data

To connect peripheral devices with USB connection, fits on all balances and measuring instruments with RS-232 port.

Please order the appropriate RS-232 interface cable for your balance at the same time, see table on Page 178

Scope of delivery: Converter cable, CD with driver,

KERN AFH 12, **€ 95,-**



Stand (Tripodal) KERN YKP-02

Technical data

stable and robust, to elevate display device, stainless steel, height-adjustable, large three-legged adjustable foot, height of stand approx. 750–1000 mm, Factory Option.

Suitable for series BFB, BXS, BFS, BFA, IFS, IFB, KFE-TM, KXG-TM, KXS-TM, KEN-TM, NFC, SFE, UFA, UFB,

KERN YKP-02, **€ 220,-**



Protective Dust Cover KERN ABS-A08

Technical data

For protection from dust and light (Fig. similar).

Suitable for all KERN analytical balances and precision balances with glass draught shield,

KERN ABS-A08, **€ 32,-**



Tare Pan KERN RFS-A02

Technical data

Made of stainless steel, which makes cleaning easy and hygienic. Ideal for weighing loose screws, small parts as well as fruit, vegetables, cheese, etc.

- W×D×H 400x300x45 mm
- Net weight approx. 554 g

KERN RFS-A02, **€ 75,-**



Tare Pan with Pan Beam KERN CH-A01N

Technical data

Made of stainless steel. Ideal for weighing loose small parts as well as fruit, vegetables etc. Max. load 30 kg. Removable tare pan which makes cleaning easy and hygienic.

Suitable for models KERN CH 15K20, HCB 20K10, HDB-N, HDB-XL

- Dimensions: tare pan, Ø/H 160×40 mm (dim. outside), 240×40 mm (dim. inside)
- Pan beam: W×D×H 290×240×300 mm 290×240×340 mm (incl. tare pan)
- Total net weight approx. 500 g

KERN CH-A01N, **€ 88,-**



Universal Density Set KERN YDB-03

Technical data

Universal density set for precise and convenient density determination of liquids and solids $\leq/\geq 1$. Suitable for all current KERN analytical balances. Scope of delivery: Beaker ($\varnothing \times H$ 84×113 mm), thermometer, sample holder, adapter, equalising weights, volume plummet (stainless steel, 20 g), universal submersible basket for solid bodies which float and sink. The wire of the submersible basket has a diameter of 0.5 mm and therefore complies with the requirements of DIN EN ISO 1183-1 (test methods for the determination of density of non-foamed plastics), KERN YDB-03, **€ 380,-**

Optional:

Density determination of the volume plummet, DAkkS calibration certificate with all data relating to the density and volume, KERN 962-335V, **€ 175,-**



ESD Earthing Kit KERN YGR-01

Technical data

ESD drain to protect against electrostatic discharge e.g. for electrostatically-charged weighing objects or people who work with the scale, KERN YGR-01, **€ 60,-**



Ioniser to neutralise Electrostatic Charge KERN YBI-01A

Technical data

Goods to be weighed which are non-conductive, such as plastic, china, glass, etc often carry electrostatic charge. The electromagnetic field which then occurs between the goods to be weighed and the balance can cause the weighing result to be distorted by up to a gramme. Therefore, when weighing in milligrammes or even smaller increments, we recommend neutralising the electrostatic charge with the KERN AC-Korona discharge ioniser. With feet supplied with the ioniser, it can be positioned conveniently next to the balance or you can manually direct it from all sides onto a particular item to be weighed.

- Discharge of ozone 0,05 ppm/h
- Total dimensions W×D×H
115×100×60 mm (Adjustable foot retracted),
115×110×80 mm (Adjustable foot folded out)
- Net weight approx. 0,31 kg
- Mains connection 100–240 V, 50/60 Hz,
AC power supply, DC 12 V, 500 mA, output,

KERN YBI-01A, € 950,-



Weighing Table KERN YPS-03

Technical data

The KERN YPS-03 weighing table has been constructed to absorb vibrations and oscillations, which would otherwise distort the weighing result.

The YPS-03 weighing table consists of:

- a heavy, polished granite slab (24 kg) and is positioned on absorbing rubber components and is used as a surface on which to stand the analytical balance
- a work table, the work surface of which surrounds the slab and offers many storage options. The sturdy powder-coated steel frame has four height-adjustable feet, which can be used to accurately level the weighing table if the floor is at all uneven
- You can work in an ergonomic way at the weighing table whether you are in a standing or seated position. The inlet on the front of the table offers enough space for you to sit down and operate the scale without touching the weighing table.
- All surfaces are hygienic and easy to clean
- Suitable for all KERN analytical balances with total dimensions ≤ W×D 300×400 mm
- Total dimensions W×D×H
785×600×800 mm (Height adjustable)
- Dimensions granite slab, W×D×H
300×400×80 mm
- Net weight approx. 46 kg

Ready for shipping in 2 working days. Dispatch complete on pallet, simple self-assembly. Please ask for dimensions, gross weight, shipping costs,

KERN YPS-03, € 990,-

STANDARD



Anti-vibration Granite Plates KERN YPS-04, YPS-05, YPS-06

Technical data

- The KERN YPS-04, -05, -06 anti-vibration granite plates are designed to dampen shocks and vibrations that would otherwise distort the weighing results of high precision Laboratory Scales and analytical balances. Also ideal for vibration-free microscope set-up
- The anti-vibration granite plate is made of polished granite, which is supported on absorbent damping elements
- The anti-vibration granite plate can be used ergonomically while standing or sitting comfortably
- Compact size, practical for small spaces
- All surfaces are hygienic and easy to clean
- Suitable for all KERN analytical balances, precision balances and microscopes with the corresponding dimensions
- Overall dimensions, W×D×H
YPS-04: 400×450×60 mm
YPS-05: 565×450×60 mm
YPS-06: individual dimensions, according to your requirements
- Net weight approx.
YPS-04: 30 kg
YPS-05: 35 kg
YPS-06: on request

Ready for shipping in 2 working days.

Dispatch complete on pallet.

Please ask for dimensions, gross weight, shipping costs,

KERN YPS-04, € 760,-

KERN YPS-05, € 980,-

KERN YPS-06, on request



STANDARD

2 DAYS



Roller Conveyor

KERN YRO-01/ YRO-02/ YRO-03

Through the smooth-running KERN roller conveyor attachments, KERN YRO, you can convert your platform scale into a robust measuring system for rapid and flexible weight determination in conveyor applications.

Especially suitable for use in production and dispatch lines, where time means money. The goods or packages can either be weighed as they pass over the balance or, at fixed stations, heavy goods can easily be pushed onto the scale thanks to the roller conveyor and moved onto the connected roller conveyor.

-  Simply connect the roller conveyor attachment to a platform (e.g. KERN IFS, IXC, SXC, KBP, KFP) – done!
- Robust aluminium profile frame. The modular design means that you can easily disassemble it for cleaning or to replace individual components
- Smooth-running, hot-dip galvanised steel rollers with ball bearings
- Conductive rollers
- Suitable for use in dry environments
- Roller distance approx. 30 mm
- Direction of movement is lengthways

- Scope of delivery: 1 roller conveyor attachment (without scale)
- We are happy to adapt the roller conveyor to your scale, adjust the preload or switch-on tolerance, etc. Please ask for your individual offer, your personal KERN contact person will be happy to help you

Model	Total dimensions W×D×H	Suitable for platforms with weighing plate sizes W×D	Total net weight approx.	Price excl. of VAT ex works €
KERN	mm	mm	kg	
YRO-01	405×305×130	400×300	6	830,-
YRO-02	505×405×130	500×400	9	870,-
YRO-03	655×505×130	650×500	12	1200,-





TEST WEIGHTS

Weights yesterday and today

For centuries now, weight pieces have been used in scales for weighing procedures. This original purpose has now almost disappeared. Today, weights are used almost exclusively for adjusting and testing = calibration of electronic balances. They are now named “test weights” as this is their contemporary purpose.

Adjustment or calibration?

► **Adjusting** a balance means that you are intervening in the weighing system, to make sure that the display is set to show the correct nominal value. With ► **calibration** on the other hand, there is no intervention, you are testing whether the display is correct and documenting any deviation.

Testing, the right way!

The internationally valid norm OIML R111:2004 classifies test weights hierarchically in accuracy classes, where E1 is the most accurate and M3 is the least accurate weight class. With KERN you get the whole test weight range in all OIML accuracy classes E1, E2, F1, F2, M1, M2, M3.

As the test weight only becomes an ► **ISO 9000ff**-compliant test instrument when its accuracy has been proven, we offer the appropriate ► **DAkkS Calibration certificate** or verification certificate (in connection with a box) for all KERN test weights. For further details see DAkkS Calibration Service.

KERN offers you the appropriate test weight package for your balance, consisting of the test weight, box and DAkkS-calibration certificate, as proof of its accuracy. The best prerequisite for a correct adjustment or checking of your scales.

► **See the Glossary**

Classes of accuracy of test weights E, F, M and their general relation to the types of balances.

The appropriate OIML tolerance class for the test weight is selected based on the scale's resolution. The key factor for this is the scale's increment count:

$$\text{Increment count [n]} = \frac{\text{Maximum capacity [Max]}}{\text{Division value [d]}}$$

E1	Test weights for customers who require a high degree of accuracy for the most demanding applications. For high-resolution balances with $d > 1,000,000$ Use recommended with DAkkS calibration certificate only.
E2	Most accurate test weights for high resolution analytical balances of verification class I $\geq 100,000$ e
F1	Test weights for analytical balances/precision balances for verification class I/II $\leq 100,000$ e
F2	Test weights for precision balances of verification class II $\leq 30,000$ e
M1	Test weights for industrial and commercial scales of verification class III $\leq 10,000$ e

The appropriate test weight for your new KERN balance can also be found directly in the accessories of the balance in our webshop.

KERN DAkkS delivery times & shipping type	Total weight ≤ 30 kg (gross weight, incl. packaging)	Total weight > 30 kg (gross weight, incl. packaging)
DAkkS standard service Class E2 – M3	 4 DAYS	 4 DAYS
DAkkS standard service Class E1, 1 mg – 500 mg and recalibration 1 g – 10 kg with a known volume	 10 DAYS	 10 DAYS
Class E1, ≥ 1 g, incl. volume determination (new weights)	 15 DAYS	 15 DAYS
Special weights, Newton weights, heavy duty weights, weight carriers, containers for individual weight sets etc.	on request	

Just lean back – we have just the right test weight for your measuring device

KERN offers you a large range of OIML test weights, which you can use at any time to quickly and reliably check your measuring instrument. From milligram weights to tonne weights, from the classic OIML design to special weights which are specifically manufactured to your specifications, we can offer you just the right test weight, and naturally the weights have the relevant DAkkS calibration certificate or factory calibration certificate.

On the following pages you will see a selection of standard test weights for OIML error limit classes E1, E2, F1, F2, M1, M2, M3. We will be happy to manufacture special (large) weights, weight containers, Newton weights or weights with special weight values for you on request. Our test weights product specialist will be happy to give you expert, comprehensive advice.

Note: In our webshop you can conveniently select test weights for your scale that have been calculated and matched to your safety requirements and intended use – with or without calibration. We will be happy to determine the minimum sample quantity according to USP Chapter <41> and recommend a KERN Safety Set especially designed for your scale.



PREMIUM⁺ TEST WEIGHTS

Note: Our highly-accurate OIML test weights are also available as **PREMIUM⁺ test weights** for that extra level of safety. Thanks to the most modern manufacturing technology, these test weights can also be adjusted within the specified error limit classes (= tolerances).

I.e. this means that these **PREMIUM⁺ test weights** have a significantly longer service life, thanks this guaranteed positive tolerance. This is of particular benefit with intensive use of the test weights.

For all the details on this **PREMIUM⁺ service** please see www.kern-lab.com/premium+ or look at the weight you want in our online shop at www.kern-sohn.com

Marking – never lose track again!

With the large variety of test equipment used then it is essential that they are identified accurately. We can help you with this and mark your test weights according to your ideas by etching, with impact numbers or laser engraved. Whether it's letters, numbers, your logo, barcodes or something else – it's your choice.

Our product specialist "Test weights" will gladly help you with any questions about this service, prices, etc.



SAFELY LOOKED AFTER

KERN weight boxes made of polyoxymethylene (“POM”) – for the most demanding requirements in highly-sensitive environments such as laboratories and clean rooms

You can rely on the highest quality and safety when storing your KERN test weights for clean room areas. KERN weight boxes made of polyoxymethylene (“POM”) are secure and easy to clean and are essential aids in clean rooms, laboratories or production environments because they protect your test weights perfectly and this enables consistently accurate and reliable measurements.

The robust construction means that there are no edges or padding which could collect dirt. This means that the boxes are particularly easy to clean hygienically.

For test weights in weight classes from E1 to M1, KERN clean room boxes offer further advantages in addition to protection, in order to meet the highest requirements in terms of cleanliness and absence of contamination. They do not require maintenance and are resistant to a range of cleaning products, acids, alkalis, disinfectants and solvents. They can also be cleaned in thermo disinfectors without any problems. In addition, repeated disinfection and cleaning ensures that they meet the highest standards of the clean room environment.

Please note: Our clean room boxes are also available in an antistatic version on request – for additional safety in hazardous areas.



All the advantages of KERN clean room boxes at a glance:

- extremely stable and robust
- can be fully disinfected
- easy to clean
- without padding or edges which could collect dirt
- maintenance-free and long-lasting
- for maximum safety and measurement results

NEW



Convenient screw thread without edges which could trap dirt – KERN clean room boxes in detail

New from KERN: The practical test weight trolley KERN 313-112-400

The KERN transport case is your essential companion for a professional appearance. It offers you direct access at all times to your full set of weights, so that you can work quickly and efficiently. With this case, you can not only increase your productivity, but also leave a lasting impression on your customers. Suitable for all weights in classes E1 – M1, see *Test weights*

NEW



→ Do you have any special requirements?

High-quality weight boxes e.g. on request we can also manufacture boxes for rectangular weights or complete weight sets to suit your individual requirements. We will be happy to advise you.



Product Specialist
Test Weights
Taras Mikitisin
Tel. +49 7433 9933-143
mikitisin@kern-sohn.com

Our KERN weight cases at a glance:



for individual weights
Plastic box



for individual weights
Aluminium protected box



for individual weights
Wooden box, lined / unlined



NEW
for individual weights
Polyoxymethylene boxes POM, unlined



for weight sets
Plastic case



for weight sets
Aluminium protected case



for weight sets
Wooden case, lined / unlined

It's your choice!

To protect your test weights we can offer you an appropriate weight case. Choose the right box for your needs. You have the choice between plastic, aluminium protected, wood or polyoxymethylene. The available weight cases are shown as a symbol in the test weight tables on the following pages. This way you have all the materials, versions, sizes and prices at a glance, listed in a concise way.



On request only:
for weight sets
Clean room boxes POM (polyoxymethylene), unlined



It's so easy to order your suitable test weight

1

According to your safety requirements or the specifications of your QM system, you select the test weight with the appropriate weight value and the required tolerance.

→

2

We offer many test weights in different designs, giving you complete freedom to decide which test weights you want to use for your application. It goes without saying that all our test weights comply with the OIML R111:2004 directive.

→

3

To protect your high-quality test equipment, we offer you cases in various designs.

→

4

A DAkkS calibration certificate – the auditor's favourite! With this certificate you provide the standard-compliant proof of all important values of your test equipment and are on the safe side when operating and testing your measuring equipment.

1		2				3						4	
Weight	Tol +/- mg	Individual weights, compact shape		Individual weights, knob shape		Plastic box		Aluminium protected box		Wooden box		DAkkS certificate	
		KERN	€	KERN	€	KERN 	€	KERN 	€	KERN 	€	KERN	€
1 g	0,03	316-01	41,-	317-01	59,-	317-020-400	4,80	317-010-600	14,-	317-010-100	30,-	962-331	33,-
2 g	0,04	316-02	41,-	317-02	60,-	317-020-400	4,80	317-020-600	17,-	317-020-100	30,-	962-332	33,-
5 g	0,05	316-03	43,-	317-03	63,-	317-030-400	4,80	317-030-600	15,-	317-030-100	32,-	962-333	33,-
10 g	0,06	316-04	44,-	317-04	67,-	317-040-400	4,80	317-040-600	15,-	317-040-100	32,-	962-334	33,-
20 g	0,08	316-05	47,-	317-05	76,-	317-050-400	4,80	317-050-600	15,-	317-050-100	32,-	962-335	33,-
50 g	0,10	316-06	53,-	317-06	80,-	317-060-400	4,80	317-060-600	15,-	317-060-100	32,-	962-336	33,-

1		2		3		4	
Weight	Knob shape in plastic case	Knob shape in aluminium protected case		Knob shape in wooden case		DAkkS certificate	
	KERN 	€	KERN 	€	KERN 	€	KERN €
1 mg - 500 mg	338-22	159,-	338-226	200,-	-	-	962-450 118,-
1 mg - 50 g	333-024	390,-	333-026	410,-	333-02	410,-	962-401 197,-
1 mg - 100 g	333-034	435,-	333-036	450,-	333-03	455,-	962-402 210,-
1 mg - 200 g	333-044	510,-	333-046	520,-	333-04	520,-	962-403 235,-
1 mg - 500 g	333-054	580,-	333-056	600,-	333-05	610,-	962-404 245,-
1 mg - 1 kg	333-064	730,-	333-066	750,-	333-06	750,-	962-405 255,-
1 mg - 2 kg	333-074	1030,-	333-076				

Selection of the appropriate test weight for your balance

A balance can never be more accurate than the test weight that is used to adjust it, it all depends on its tolerance. **The accuracy of the test weight should correspond to the readout [d] of the balance, or rather be more precise.**

Nominal test weight value is shown in adjust mode "CAL" in the balance display. Given a choice, the heaviest weight is the most suitable for accurate measurement.

Once accuracy and nominal test weight value are specified, the suitable test weight is selected according to the tolerances "Tol" of the individual accuracy classes E2 – M3, see column "Tol ± mg" at the respective weight.

Example:

Balance with weighing range [Max] 2000 g = 2 kg and readout [d] = 0,01 g = 10 mg

- The accuracy of the required test weight is determined by readout [d]: max. tolerance ± 10 mg.
- Displayed weight size on "CAL" mode: 1000 g or 2000 g. The required test weight has a 2 kg weight size.
- Suitable test weights with ± 10 mg tolerance and 2 kg weight size, can be found in accuracy class F1. KERN-No 326-12 or KERN-No 327-12.

Exception: analytical balances (readout [d] ≤ 0,1 mg):

E1 test weights are recommended. Depending on the safety requirements, E2 test weights with a DAkkS calibration certificate will also be sufficient.

From finely turned to polished stainless steel – the right test weight for every situation

					
Test weight	→ Knob shape with lifting knob, polished stainless steel	Compact shape with carrying grip, polished stainless steel	Knob shape with lifting knob, polished stainless steel	ECO shape, polished stainless steel	Knob shape with lifting knob, finely turned stainless steel
Features	↓				
Conforms to OIML:R111	yes	yes	yes	yes	yes
Available classes	E1, E2	E2	F1	F1	F2, M1
Upper surface	polished	polished	polished	polished	finely turned
Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Adjusting cavity	no	no	yes	yes, from 50 g, readjustment can only be carried out by KERN	yes, from 20 g
Marking (Milligram weights, generally none)	none	none	Nominal value, etched	Nominal value, etched	F2: Class + nominal value, etched; M1: Class + nominal value, adopted
Verification possible	yes (E2)	no	yes	no	yes (M1)
Checking equipment for verification purposes	approved (E2)	approved	approved	approved	approved (M1)
Ideal as checking equipment in QM systems (e.g. ISO 9000 ff)	yes	yes	yes	yes	yes
Benefits	• High-quality test weight for analytical and precision balances • Highly-refined surface • Ideal shape of the top for good grip	• Affordable test weight for analytical and precision balances • Highly refined surface	• Ideal, high-quality test weight for precision balances • No visible adjustment chamber • High long-term stability • Ideal shape of the top for good grip	• Affordable test weight for analytical and precision balances • Highly refined surface • Optimum shape of the top for good grip	• Ideal test weight for commercial and industrial scales • Ideal shape of the top for good grip

Composition table, valid for all KERN test weight sets from 1 mg

Individual weights per set																																
	1	2	2	5	10	20	20	50	100	200	200	500	1	2	2	5	10	20	20	50	100	200	200	500	1	2	2	5	10			
	mg												g												kg							
Test weight set																																
1 mg-500 mg	$\Sigma = 1,11\text{ g}$																															
1 mg-50 g	$\Sigma = 111,11\text{ g}$																															
1 mg-100 g	$\Sigma = 211,11\text{ g}$																															
1 mg-200 g	$\Sigma = 611,11\text{ g}$																															
1 mg-500 g	$\Sigma = 1.111,11\text{ g}$																															
1 mg-1 kg	$\Sigma = 2.111,11\text{ g}$																															
1 mg-2 kg	$\Sigma = 6.111,11\text{ g}$																															
1 mg-5 kg	$\Sigma = 11.111,11\text{ g}$																															
1 mg-10 kg	$\Sigma = 21.111,11\text{ g}$																															

The key points from the OIML norm R111:2004

OIML (Organisation Internationale de Métrologie Légale) has established the exact metrological requirements for weights in verified applications in approx. 100 states all over the world.

The OIML guideline R111 (2004 Edition) for weights relates to sizes 1 mg – 5000 kg. Statements are made on the accuracy, materials, geometric shape, marking and storage of the weights.

Error limits for weights of classes E1 to M3

The error limit classes are in fixed hierarchical levels in the proportion of 1:3, where E1 is the most accurate and M3 is the least accurate weight class. When testing weights with other weights, the correct test class is the next highest class.

Error limit classes (= tolerances)

The values given in the table below (tolerances $\pm \dots$ mg) are the respective permitted fabrication tolerances.

They are to be equal to the

► **measuring uncertainty** of the weight, if no

► **DAkkS calibration certificate** is available.

Conventional mass

The problem is the air buoyancy, which makes the weight appear lighter.

In order to avoid this “distortion” in daily use, all weights are adjusted to the unit specifications as given in R111, e.g. it is accepted that: material density of the weights is 8000 kg/m³, air density is 1.2 kg/m³ and measuring temperature is 20 °C.

KERN test weights:

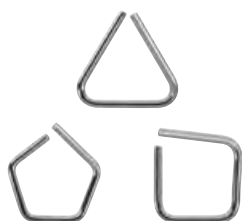
Unless otherwise specified, they conform to OIML R111:2004 in every detail.

► **See the Glossary**

Nominal value **OIML R111:2004 Maximum permissible errors for weights = permissible tolerances “Tol $\pm$ mg”**

↓	E1	E2	F1	F2	M1	M2	M3
1 mg	$\pm 0,003$ mg	$\pm 0,006$ mg	$\pm 0,020$ mg	$\pm 0,06$ mg	$\pm 0,20$ mg	-	-
2 mg	$\pm 0,003$ mg	$\pm 0,006$ mg	$\pm 0,020$ mg	$\pm 0,06$ mg	$\pm 0,20$ mg	-	-
5 mg	$\pm 0,003$ mg	$\pm 0,006$ mg	$\pm 0,020$ mg	$\pm 0,06$ mg	$\pm 0,20$ mg	-	-
10 mg	$\pm 0,003$ mg	$\pm 0,008$ mg	$\pm 0,025$ mg	$\pm 0,08$ mg	$\pm 0,25$ mg	-	-
20 mg	$\pm 0,003$ mg	$\pm 0,010$ mg	$\pm 0,03$ mg	$\pm 0,10$ mg	$\pm 0,3$ mg	-	-
50 mg	$\pm 0,004$ mg	$\pm 0,012$ mg	$\pm 0,04$ mg	$\pm 0,12$ mg	$\pm 0,4$ mg	-	-
100 mg	$\pm 0,005$ mg	$\pm 0,016$ mg	$\pm 0,05$ mg	$\pm 0,16$ mg	$\pm 0,5$ mg	$\pm 1,6$ mg	-
200 mg	$\pm 0,006$ mg	$\pm 0,020$ mg	$\pm 0,06$ mg	$\pm 0,20$ mg	$\pm 0,6$ mg	$\pm 2,0$ mg	-
500 mg	$\pm 0,008$ mg	$\pm 0,025$ mg	$\pm 0,08$ mg	$\pm 0,25$ mg	$\pm 0,8$ mg	$\pm 2,5$ mg	-
1 g	$\pm 0,010$ mg	$\pm 0,03$ mg	$\pm 0,10$ mg	$\pm 0,3$ mg	$\pm 1,0$ mg	$\pm 3,0$ mg	± 10 mg
2 g	$\pm 0,012$ mg	$\pm 0,04$ mg	$\pm 0,12$ mg	$\pm 0,4$ mg	$\pm 1,2$ mg	$\pm 4,0$ mg	± 12 mg
5 g	$\pm 0,016$ mg	$\pm 0,05$ mg	$\pm 0,16$ mg	$\pm 0,5$ mg	$\pm 1,6$ mg	$\pm 5,0$ mg	± 16 mg
10 g	$\pm 0,020$ mg	$\pm 0,06$ mg	$\pm 0,20$ mg	$\pm 0,6$ mg	$\pm 2,0$ mg	$\pm 6,0$ mg	± 20 mg
20 g	$\pm 0,025$ mg	$\pm 0,08$ mg	$\pm 0,25$ mg	$\pm 0,8$ mg	$\pm 2,5$ mg	$\pm 8,0$ mg	± 25 mg
50 g	$\pm 0,03$ mg	$\pm 0,10$ mg	$\pm 0,3$ mg	$\pm 1,0$ mg	$\pm 3,0$ mg	± 10 mg	± 30 mg
100 g	$\pm 0,05$ mg	$\pm 0,16$ mg	$\pm 0,5$ mg	$\pm 1,6$ mg	$\pm 5,0$ mg	± 16 mg	± 50 mg
200 g	$\pm 0,10$ mg	$\pm 0,3$ mg	$\pm 1,0$ mg	$\pm 3,0$ mg	± 10 mg	± 30 mg	± 100 mg
500 g	$\pm 0,25$ mg	$\pm 0,8$ mg	$\pm 2,5$ mg	$\pm 8,0$ mg	± 25 mg	± 80 mg	± 250 mg
1 kg	$\pm 0,5$ mg	$\pm 1,6$ mg	$\pm 5,0$ mg	± 16 mg	± 50 mg	± 160 mg	± 500 mg
2 kg	$\pm 1,0$ mg	$\pm 3,0$ mg	± 10 mg	± 30 mg	± 100 mg	± 300 mg	$\pm 1\,000$ mg
5 kg	$\pm 2,5$ mg	$\pm 8,0$ mg	± 25 mg	± 80 mg	± 250 mg	± 800 mg	$\pm 2\,500$ mg
10 kg	$\pm 5,0$ mg	± 16 mg	± 50 mg	± 160 mg	± 500 mg	$\pm 1\,600$ mg	$\pm 5\,000$ mg
20 kg	± 10 mg	± 30 mg	± 100 mg	± 300 mg	$\pm 1\,000$ mg	$\pm 3\,000$ mg	± 10 g
50 kg	± 25 mg	± 80 mg	± 250 mg	± 800 mg	$\pm 2\,500$ mg	$\pm 8\,000$ mg	± 25 g
100 kg	-	± 160 mg	± 500 mg	$\pm 1\,600$ mg	$\pm 5\,000$ mg	± 16 g	± 50 g
200 kg	-	± 300 mg	$\pm 1\,000$ mg	$\pm 3\,000$ mg	± 10 g	± 30 g	± 100 g
500 kg	-	± 800 mg	$\pm 2\,500$ mg	$\pm 8\,000$ mg	± 25 g	± 80 g	± 250 g
1 000 kg	-	$\pm 1\,600$ mg	$\pm 5\,000$ mg	± 16 g	± 50 g	± 160 g	± 500 g
2 000 kg	-	-	± 10 g	± 30 g	± 100 g	± 300 g	$\pm 1\,000$ g
5 000 kg	-	-	± 25 g	± 80 g	± 250 g	± 800 g	$\pm 2\,500$ g

TEST WEIGHTS AND BOXES CLASS E1



Milligram weights, wire shape



Individual weights, knob shape



Wooden box, for milligram weights



Plastic box, lined,
for individual
weights ≤ 50 g



Plastic box, lined,
for individual
weights ≥ 100 g



Wooden box, lined,
for individual weights ≤ 500 g



Wooden box, lined,
for individual weights ≥ 1 kg



Milligram weight
set in plastic case
(308-42)



Milligram weight
set in aluminium
protected case,
lined (308-426)



Plastic case, lined, for weight sets,
compact shape/knob shape



Aluminium protected case, lined,
for weight sets, knob shape



Wooden case, lined,
for weight sets, knob shape

Class E1 · Milligram weights, wire shape

Test weight material: stainless steel

Weight	Tol +/- mg	Milligram weight, wire shape	Plastic box	Aluminium protected box	Wooden box	DAkkS certificate
		KERN	€ KERN 	€ KERN 	€ KERN 	€ KERN
1 mg	0,003	308-31	89,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-251
2 mg	0,003	308-32	89,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-252
5 mg	0,003	308-33	89,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-253
10 mg	0,003	308-34	89,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-254
20 mg	0,003	308-35	89,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-255
50 mg	0,004	308-36	89,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-256
100 mg	0,005	308-37	89,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-257
200 mg	0,006	308-38	89,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-258
500 mg	0,008	308-39	89,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-259

Class E1 · Individual weights, knob shape

Test weight material: stainless steel polished

Weight	Tol +/- mg	Individual weight, knob shape	Plastic box	Aluminium protected box	Wooden box	DAkkS certificate Initial calibration*	DAkkS certificate Recalibration
		KERN	€ KERN 	€ KERN 	€ KERN 	€ KERN	€ KERN
1 g	0,010	307-01	83,- 317-020-400	4,80 317-010-600	13,- 317-010-100	32,- 963-231	250,- 962-231 R
2 g	0,012	307-02	89,- 317-020-400	4,80 317-020-600	15,- 317-020-100	30,- 963-232	250,- 962-232 R
5 g	0,016	307-03	90,- 317-030-400	4,80 317-030-600	14,- 317-030-100	32,- 963-233	250,- 962-233 R
10 g	0,020	307-04	97,- 317-040-400	4,80 317-040-600	13,- 317-040-100	30,- 963-234	250,- 962-234 R
20 g	0,025	307-05	100,- 317-050-400	4,80 317-050-600	13,- 317-050-100	31,- 963-235	250,- 962-235 R
50 g	0,030	307-06	118,- 317-060-400	6,30 317-060-600	12,- 317-060-100	35,- 963-236	250,- 962-236 R
100 g	0,050	307-07	145,- 317-070-400	7,80 317-070-600	13,- 317-070-100	35,- 963-237	250,- 962-237 R
200 g	0,100	307-08	186,- 317-080-400	7,20 317-080-600	13,- 317-080-100	39,- 963-238	250,- 962-238 R
500 g	0,250	307-09	270,- 317-090-400	8,70 317-090-600	17,- 317-090-100	46,- 963-239	250,- 962-239 R
1 kg	0,500	307-11	395,- 317-110-400	10,- 317-110-600	25,- 317-110-100	61,- 963-241	250,- 962-241 R
2 kg	1,000	307-12	570,- 317-120-400	13,- 317-120-600	29,- 317-120-100	68,- 963-242	570,- 962-242 R
5 kg	2,500	307-13	1020,- 317-130-400	27,- 317-130-600	53,- 317-130-100	101,- 963-243	570,- 962-243 R
10 kg	5,000	307-14	1640,- 317-140-400	25,- 317-140-600	75,- 317-140-100	123,- 963-244	570,- 962-244 R
20 kg	10,000	307-15	4280,- -	- 317-150-600	105,- 317-150-100	580,- 963-245	1320,- 962-245 R
50 kg	25,000	307-16	8190,- -	- 317-160-600	305,- 317-160-100	710,- 963-246	1540,- 962-246 R

* For E1 weights > 1g at the point of DAkkS initial calibration, a volume determination will be carried out in accordance with OIML:R111.
When recalibrating according to DAkkS, this is not required.

Class E1 · Weight sets, knob shape

Test weight material: stainless steel polished

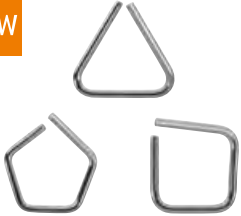
Weight set	Knob shape in plastic case	Knob shape in alu- minium protected case	Knob shape in wooden case	DAkkS certificate Initial calibration*	DAkkS certificate Recalibration
	KERN 	€ KERN 	€ KERN 	€ KERN	€ KERN
1 mg – 500 mg	308-42	1130,- 308-426	1380,-	962-250	450,- 962-250 R
1 mg – 50 g	303-024	1930,- 303-026	1830,- 303-02	1970,- 963-201	1440,- 962-201 R
1 mg – 100 g	303-034	2010,- 303-036	1980,- 303-03	2000,- 963-202	1570,- 962-202 R
1 mg – 200 g	303-044	2250,- 303-046	2270,- 303-04	2310,- 963-203	1800,- 962-203 R
1 mg – 500 g	303-054	2590,- 303-056	2610,- 303-05	2650,- 963-204	1920,- 962-204 R
1 mg – 1 kg	303-064	3140,- 303-066	3260,- 303-06	3200,- 963-205	2040,- 962-205 R
1 mg – 2 kg	303-074	4260,- 303-076	4370,- 303-07	4340,- 963-206	2660,- 962-206 R
1 mg – 5 kg	303-084	5270,- 303-086	5660,- 303-08	5460,- 963-207	2980,- 962-207 R
1 mg – 10 kg	-	- 303-096	6860,- 303-09	7170,- 963-208	3390,- 962-208 R
1 g – 50 g	304-024	840,- 304-026	620,- 304-02	900,- 963-215	1040,- 962-215 R
1 g – 100 g	304-034	980,- 304-036	1130,- 304-03	1040,- 963-216	1130,- 962-216 R
1 g – 200 g	304-044	1350,- 304-046	1500,- 304-04	1410,- 963-217	1380,- 962-217 R
1 g – 500 g	304-054	1610,- 304-056	1780,- 304-05	1740,- 963-218	1500,- 962-218 R
1 g – 1 kg	304-064	2050,- 304-066	2130,- 304-06	2120,- 963-219	1650,- 962-219 R
1 g – 2 kg	304-074	3200,- 304-076	3330,- 304-07	3300,- 963-220	2310,- 962-220 R
1 g – 5 kg	304-084	4210,- 304-086	4620,- 304-08	4420,- 963-221	2700,- 962-221 R
1 g – 10 kg	-	- 304-096	5820,- 304-09	6120,- 963-222	3150,- 962-222 R

TEST WEIGHTS AND BOXES

CLASS E2



NEW



Milligram weights, wire shape



Milligram weights, flat polygonal sheet



Individual weights, compact shape



Individual weights, knob shape



Plastic box, lined, for individual weights ≤ 50 g



Plastic box, lined, for individual weights ≥ 100 g



Aluminium protected box, lined, for individual weights



Wooden box, lined, for individual weights ≤ 500 g



Wooden box, lined, for individual weights ≥ 1 kg



Milligram weight set in plastic case (318-22)



Milligram weight set in aluminium protected case, lined (318-226)



Plastic case, lined, for weight sets, compact shape/knob shape



Aluminium protected case, lined, for weight sets, compact shape/knob shape



Wooden case, lined, for weight sets, compact shape/knob shape

NEW Class E2 · Milligram weights, wire shape

Test weight material: stainless steel

Weight	Tol +/- mg	Milligram weight, flat polygonal sheet	Plastic box	Aluminium protected box	Wooden box	DAkkS certificate
		KERN	€ KERN 	€ KERN 	€ KERN 	€ KERN
1 mg	0,006	318-31	51,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-351 34,-
2 mg	0,006	318-32	51,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-352 34,-
5 mg	0,006	318-33	51,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-353 34,-
10 mg	0,008	318-34	51,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-354 34,-
20 mg	0,010	318-35	51,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-355 34,-
50 mg	0,012	318-36	51,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-356 34,-
100 mg	0,016	318-37	51,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-357 34,-
200 mg	0,020	318-38	51,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-358 34,-
500 mg	0,025	318-39	51,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-359 34,-
1 mg - 500 mg	-	318-42	610,- -	-	-	-

Class E2 · Milligram weights, flat polygonal sheet

Test weight material: stainless steel

Weight	Tol +/- mg	Milligram weight, flat polygonal sheet	Plastic box	Aluminium protected box	Wooden box	DAkkS certificate
		KERN	€ KERN 	€ KERN 	€ KERN 	€ KERN
1 mg	0,006	318-01	28,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-351 34,-
2 mg	0,006	318-02	28,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-352 34,-
5 mg	0,006	318-03	28,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-353 34,-
10 mg	0,008	318-04	28,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-354 34,-
20 mg	0,010	318-05	28,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-355 34,-
50 mg	0,012	318-06	28,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-356 34,-
100 mg	0,016	318-07	28,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-357 34,-
200 mg	0,020	318-08	28,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-358 34,-
500 mg	0,025	318-09	28,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-359 34,-

Class E2 · Individual weights, compact shape or knob shape

Test weight material: stainless steel polished

Weight	Tol +/- mg	Individual weights, compact shape	Individual weights, knob shape	Plastic box	Aluminium protected box	Wooden box	DAkkS certificate
		KERN	€ KERN	€ KERN 	€ KERN 	€ KERN 	€ KERN
1 g	0,03	316-01	41,- 317-01	51,- 317-020-400	4,80 317-010-600	13,- 317-010-100	32,- 962-331 34,-
2 g	0,04	316-02	41,- 317-02	53,- 317-020-400	4,80 317-020-600	15,- 317-020-100	30,- 962-332 34,-
5 g	0,05	316-03	43,- 317-03	55,- 317-030-400	4,80 317-030-600	14,- 317-030-100	32,- 962-333 34,-
10 g	0,06	316-04	44,- 317-04	57,- 317-040-400	4,80 317-040-600	13,- 317-040-100	30,- 962-334 34,-
20 g	0,08	316-05	47,- 317-05	64,- 317-050-400	4,80 317-050-600	13,- 317-050-100	31,- 962-335 34,-
50 g	0,10	316-06	53,- 317-06	71,- 317-060-400	6,30 317-060-600	12,- 317-060-100	35,- 962-336 34,-
100 g	0,16	316-07	59,- 317-07	80,- 317-070-400	7,80 317-070-600	13,- 317-070-100	35,- 962-337 42,-
200 g	0,30	316-08	69,- 317-08	106,- 317-080-400	7,20 317-080-600	13,- 317-080-100	39,- 962-338 42,-
500 g	0,80	316-09	102,- 317-09	156,- 317-090-400	8,70 317-090-600	17,- 317-090-100	46,- 962-339 42,-
1 kg	1,60	316-11	130,- 317-11	215,- 317-110-400	10,- 317-110-600	25,- 317-110-100	61,- 962-341 42,-
2 kg	3,00	316-12	210,- 317-12	315,- 317-120-400	13,- 317-120-600	29,- 317-120-100	68,- 962-342 52,-
5 kg	8,00	316-13	405,- 317-13	510,- 317-130-400	27,- 317-130-600	53,- 317-130-100	101,- 962-343 52,-
10 kg	16,00	316-14	700,- 317-14	780,- 317-140-400	25,- 317-140-600	75,- 317-140-100	123,- 962-344 52,-
20 kg	30,00	-	- 317-15	2330,- -	- 317-150-600	105,- 317-150-100	580,- 962-345 67,-
50 kg	80,00	-	- 317-16	4810,- -	- 317-160-600	305,- 317-160-100	710,- 962-346 77,-

Tip:

Our highly-accurate OIML test weights are also available as **PREMIUM+ weights** for that extra level of safety. See all details page 187 or on www.kern-lab.com/premium+

Class E2 · Weight sets, compact shape

Test weight material: Milligram weights stainless steel, individual weights: polished stainless steel

Weight sets	Compact shape in plastic case		Compact shape in aluminium protected case		DAkkS certificate			
	KERN		€	KERN		€	KERN	€
1 mg - 500 mg	318-22		270,-	318-226		400,-	962-350	230,-
1 g - 50 g	312-024		465,-	312-026		435,-	962-315	157,-
1 g - 100 g	312-034		520,-	312-036		500,-	962-316	187,-
1 g - 200 g	312-044		650,-	312-046		630,-	962-317	245,-
1 g - 500 g	312-054		750,-	312-056		730,-	962-318	285,-
1 g - 1 kg	312-064		970,-	312-066		970,-	962-319	315,-
1 g - 2 kg	312-074		1350,-	312-076		1400,-	962-320	385,-
1 g - 5 kg	312-084		1780,-	312-086		1870,-	962-321	440,-
1 g - 10 kg	-		-	312-096		2510,-	962-322	475,-

Class E2 · Weight sets, knob shape

Test weight material: Milligram weights stainless steel, individual weights: polished stainless steel

Weight sets	Knob shape in plastic case		Knob shape in aluminium protected case		Knob shape in wooden case		DAkkS certificate		
	KERN		€	KERN		€	KERN		€
1 mg - 500 mg	318-22		270,-	318-226		400,-	962-350		230,-
1 mg - 50 g	313-024		880,-	313-026		760,-	962-301		380,-
1 mg - 100 g	313-034		960,-	313-036		1030,-	962-302		410,-
1 mg - 200 g	313-044		1220,-	313-046		1030,-	962-303		480,-
1 mg - 500 g	313-054		1360,-	313-056		1390,-	962-304		510,-
1 mg - 1 kg	313-064		1620,-	313-066		1700,-	962-305		540,-
1 mg - 2 kg	313-074		2240,-	313-076		2360,-	962-306		600,-
1 mg - 5 kg	313-084		2920,-	313-086		2910,-	962-307		640,-
1 mg - 10 kg	-		-	313-096		3950,-	962-308		680,-
1 g - 50 g	314-024		550,-	314-026		460,-	962-315		157,-
1 g - 100 g	314-034		620,-	314-036		710,-	962-316		187,-
1 g - 200 g	314-044		830,-	314-046		900,-	962-317		245,-
1 g - 500 g	314-054		1070,-	314-056		1100,-	962-318		285,-
1 g - 1 kg	314-064		1290,-	314-066		1380,-	962-319		315,-
1 g - 2 kg	314-074		1910,-	314-076		2040,-	962-320		385,-
1 g - 5 kg	314-084		2410,-	314-086		2590,-	962-321		440,-
1 g - 10 kg	-		-	314-096		3630,-	962-322		475,-

Tip:

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TEST WEIGHTS AND BOXES CLASS F1



NEW



Milligram weights,
wire shape



Milligram weights,
flat polygonal sheet



Individual weights/
Weight sets,
ECO shape



Individual weights/
Weight sets,
knob shape



Test weights (10 – 50 kg),
polished stainless steel,
KERN 327-141 ff,
optional: Wooden box



Block weight,
polished stainless steel



Plastic box, lined, for
• individual weights ≤ 200 g
• individual weights ≥ 500 g



Aluminium protected box, lined,
for individual weights



Wooden box, lined, for
• individual weights ≤ 500 g
• individual weights ≥ 1 kg



Milligram weight
set in plastic case
(328-22)



Milligram weight
set in aluminium
protected case,
lined (328-226)



Plastic case, lined for weight sets,
ECO shape/knob shape



Aluminium protected case, lined,
for weight sets ECO shape/
knob shape



Wooden case, lined, for weight sets
ECO shape/knob shape

NEW Class F1 · Milligram weights, wire shape

Test weight material: stainless steel

Weight	Tol +/- mg	Milligram weight, flat polygonal sheet	Plastic box	Aluminium protected box	Wooden box	DAkkS certificate
		KERN	€ KERN 	€ KERN 	€ KERN 	€ KERN
1 mg	0,02	328-31	21,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-451 22,-
2 mg	0,02	328-32	21,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-452 22,-
5 mg	0,02	328-33	21,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-453 22,-
10 mg	0,025	328-34	21,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-454 22,-
20 mg	0,03	328-35	21,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-455 22,-
50 mg	0,04	328-36	21,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-456 22,-
100 mg	0,05	328-37	21,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-457 22,-
200 mg	0,06	328-38	21,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-458 22,-
500 mg	0,08	328-39	21,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-459 22,-
1 mg - 500 mg	-	328-42	265,- -	-	-	-

Class F1 · Milligram weights, flat polygonal sheet

Test weight material: stainless steel

Weight	Tol +/- mg	Milligram weight, flat polygonal sheet	Plastic box	Aluminium protected box	Wooden box	DAkkS certificate
		KERN	€ KERN 	€ KERN 	€ KERN 	€ KERN
1 mg	0,02	328-01	13,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-451 22,-
2 mg	0,02	328-02	13,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-452 22,-
5 mg	0,02	328-03	13,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-453 22,-
10 mg	0,025	328-04	13,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-454 22,-
20 mg	0,03	328-05	13,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-455 22,-
50 mg	0,04	328-06	13,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-456 22,-
100 mg	0,05	328-07	13,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-457 22,-
200 mg	0,06	328-08	13,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-458 22,-
500 mg	0,08	328-09	13,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-459 22,-

Class F1 · Individual weights, ECO shape or knob shape

Test weight material: stainless steel polished

Weight	Tol +/- mg	Individual weight, ECO shape	Individual weight, knob shape	Plastic box	Aluminium protected box	Wooden box	DAkkS certificate
		KERN	€ KERN	€ KERN 	€ KERN 	€ KERN 	€ KERN
1 g	0,10	326-01	15,- 327-01	33,- 347-030-400	2,- 317-010-600	13,- 317-010-100	32,- 962-431 22,-
2 g	0,12	326-02	15,- 327-02	33,- 347-030-400	2,- 317-020-600	15,- 317-020-100	30,- 962-432 22,-
5 g	0,16	326-03	17,- 327-03	34,- 347-030-400	2,- 317-030-600	14,- 317-030-100	32,- 962-433 22,-
10 g	0,20	326-04	21,- 327-04	37,- 347-050-400	2,- 317-040-600	13,- 317-040-100	30,- 962-434 22,-
20 g	0,25	326-05	27,- 327-05	42,- 347-050-400	2,- 317-050-600	13,- 317-050-100	31,- 962-435 22,-
50 g	0,30	326-06	36,- 327-06	47,- 347-070-400	2,- 317-060-600	12,- 317-060-100	35,- 962-436 22,-
100 g	0,50	326-07	40,- 327-07	54,- 347-070-400	2,- 317-070-600	13,- 317-070-100	35,- 962-437 24,-
200 g	1,00	326-08	49,- 327-08	66,- 347-080-400	2,10 317-080-600	13,- 317-080-100	39,- 962-438 24,-
500 g	2,50	326-09	98,- 327-09	124,- 347-090-400	3,- 317-090-600	17,- 317-090-100	46,- 962-439 24,-
1 kg	5,00	326-11	130,- 327-11	163,- 347-110-400	3,80 317-110-600	25,- 317-110-100	61,- 962-441 24,-
2 kg	10	326-12	215,- 327-12	245,- 347-120-400	5,- 317-120-600	29,- 317-120-100	68,- 962-442 31,-
5 kg	25	326-13	340,- 327-13	395,- 347-130-400	11,- 317-130-600	53,- 317-130-100	101,- 962-443 31,-
10 kg	50	326-14	560,- 327-14	680,- 347-140-400	16,- 317-140-600	75,- 317-140-100	123,- 962-444 31,-
20 kg	100	-	- 327-15	1830,- -	- 317-150-600	105,- 317-150-100	580,- 962-445 35,-
50 kg	250	-	- 327-16	3930,- -	- 317-160-600	305,- 317-160-100	710,- 962-446 47,-

Class F1 · Block weights

Block weight material: stainless steel polished

Weight	Tol +/- mg	Block weight	Aluminium protected box	DAkkS certificate
		KERN	€ KERN 	€
5 kg	25	326-36	950,- 346-060-600	71,- 962-443 31,-
10 kg	50	326-37	1380,- 346-070-600	95,- 962-444 31,-
20 kg	100	326-38	1830,- 346-080-600	125,- 962-445 35,-
50 kg	250	326-39	4370,- 346-090-600	83,- 962-446 47,-

Class F1 · Test weights, stackable

Test weight material: stainless steel polished

Weight Tol +/- mg Test weight Wooden box DAkkS certificate

			KERN	€	KERN		€	KERN	
	5 kg	25	327-131	1000,-	337-131-100		465,-	962-443	31,-
	10 kg	50	327-141	1340,-	337-141-100		300,-	962-444	31,-
	20 kg	100	327-151	1680,-	337-151-100		325,-	962-445	35,-
	50 kg	250	327-161	3880,-	337-161-100		510,-	962-446	47,-

Class F1 · Weight sets, ECO shape

Test weight material: Milligram weights stainless steel, Individual weights: polished stainless steel

Weight sets ECO shape in plastic case ECO shape in aluminium protected case ECO shape in wooden case DAkkS certificate

	KERN		€	KERN		€	KERN		€	KERN	€
1 mg - 500 mg	328-22		136,-	328-226		220,-	-	-	-	962-450	122,-
1 mg - 50 g	325-024		540,-	325-026		390,-	325-022		600,-	962-401	205,-
1 mg - 100 g	325-034		600,-	325-036		620,-	325-032		650,-	962-402	215,-
1 mg - 200 g	325-044		690,-	325-046		710,-	325-042		740,-	962-403	240,-
1 mg - 500 g	325-054		790,-	325-056		810,-	325-052		910,-	962-404	250,-
1 mg - 1 kg	325-064		1010,-	325-066		1020,-	325-062		1060,-	962-405	265,-
1 mg - 2 kg	325-074		1300,-	325-076		1320,-	325-072		1370,-	962-406	305,-
1 mg - 5 kg	325-084		1580,-	325-086		1620,-	325-082		1780,-	962-407	320,-
1 mg - 10 kg	-		-	325-096		2340,-	325-092		2390,-	962-408	345,-
1 g - 50 g	326-024		370,-	326-026		250,-	326-022		435,-	962-415	81,-
1 g - 100 g	326-034		420,-	326-036		440,-	326-032		490,-	962-416	94,-
1 g - 200 g	326-044		520,-	326-046		540,-	326-042		600,-	962-417	119,-
1 g - 500 g	326-054		610,-	326-056		630,-	326-052		750,-	962-418	132,-
1 g - 1 kg	326-064		830,-	326-066		850,-	326-062		900,-	962-419	145,-
1 g - 2 kg	326-074		1110,-	326-076		1140,-	326-072		1220,-	962-420	182,-
1 g - 5 kg	326-084		1410,-	326-086		1430,-	326-082		1630,-	962-421	200,-
1 g - 10 kg	-		-	326-096		2070,-	326-092		2240,-	962-422	220,-

Class F1 · Weight sets, knob shape

Test weight material: Milligram weights stainless steel, Individual weights: polished stainless steel

Weight sets Knob shape in plastic case Knob shape in aluminium protected case Knob shape in wooden case DAkkS certificate

	KERN		€	KERN		€	KERN		€	KERN	€
1 mg - 500 mg	328-22		136,-	328-226		220,-	-	-	-	962-450	122,-
1 mg - 50 g	323-024		550,-	323-026		465,-	323-02		600,-	962-401	205,-
1 mg - 100 g	323-034		610,-	323-036		660,-	323-03		650,-	962-402	215,-
1 mg - 200 g	323-044		730,-	323-046		800,-	323-04		790,-	962-403	240,-
1 mg - 500 g	323-054		860,-	323-056		940,-	323-05		980,-	962-404	250,-
1 mg - 1 kg	323-064		1110,-	323-066		1180,-	323-06		1170,-	962-405	265,-
1 mg - 2 kg	323-074		1580,-	323-076		1590,-	323-07		1730,-	962-406	305,-
1 mg - 5 kg	323-084		1960,-	323-086		1960,-	323-08		2160,-	962-407	320,-
1 mg - 10 kg	-		-	323-096		2790,-	323-09		2900,-	962-408	345,-
1 g - 50 g	324-024		385,-	324-026		330,-	324-02		445,-	962-415	81,-
1 g - 100 g	324-034		435,-	324-036		485,-	324-03		500,-	962-416	94,-
1 g - 200 g	324-044		650,-	324-046		640,-	324-04		720,-	962-417	119,-
1 g - 500 g	324-054		770,-	324-056		770,-	324-05		880,-	962-418	132,-
1 g - 1 kg	324-064		1020,-	324-066		1020,-	324-06		1070,-	962-419	145,-
1 g - 2 kg	324-074		1460,-	324-076		1420,-	324-07		1570,-	962-420	182,-
1 g - 5 kg	324-084		1840,-	324-086		1840,-	324-08		2040,-	962-421	200,-
1 g - 10 kg	-		-	324-096		2650,-	324-09		2830,-	962-422	220,-

 New model

TEST WEIGHTS AND BOXES

CLASS F2



Milligram weights,
flat polygonal sheet



Individual weights/Weight sets,
knob shape



Block weight, stainless steel



Test weights (10 – 50 kg),
finely turned stainless steel,
KERN 337-141 ff,
optional: Wooden box



Plastic box,
lined, for
individual
weights
 ≤ 200 g

Plastic box,
lined, for
individual
weights
 ≥ 500 g



Aluminium protected box, lined,
for individual weights



Wooden box, not lined
for individual weights ≤ 500 g



Wooden box, not lined,
for individual weights ≥ 1 kg



Milligram weight
set in plastic case
(338-22)



Milligram weight
set in aluminium
protected case,
lined (338-226)



Plastic case, lined, for weight sets,
knob shape



Aluminium protected case, lined,
for weight sets, knob shape



Wooden case, for weight sets,
knob shape

Class F2 · Milligram weights, flat polygonal sheet

Test weight material: stainless steel

Weight	Tol +/- mg	Milligram weight, flat polygonal sheet		Plastic box		Aluminium protected box		Wooden box		DAkkS certificate				
		KERN	€	KERN		€	KERN		€	KERN		€	KERN	€
1 mg	0,06	338-01	8,60	347-009-400		2,-	317-009-600		13,-	338-090-200		34,-	962-451	22,-
2 mg	0,06	338-02	8,30	347-009-400		2,-	317-009-600		13,-	338-090-200		34,-	962-452	22,-
5 mg	0,06	338-03	8,60	347-009-400		2,-	317-009-600		13,-	338-090-200		34,-	962-453	22,-
10 mg	0,08	338-04	8,60	347-009-400		2,-	317-009-600		13,-	338-090-200		34,-	962-454	22,-
20 mg	0,10	338-05	8,30	347-009-400		2,-	317-009-600		13,-	338-090-200		34,-	962-455	22,-
50 mg	0,12	338-06	8,60	347-009-400		2,-	317-009-600		13,-	338-090-200		34,-	962-456	22,-
100 mg	0,16	338-07	8,60	347-009-400		2,-	317-009-600		13,-	338-090-200		34,-	962-457	22,-
200 mg	0,20	338-08	8,30	347-009-400		2,-	317-009-600		13,-	338-090-200		34,-	962-458	22,-
500 mg	0,25	338-09	8,60	347-009-400		2,-	317-009-600		13,-	338-090-200		34,-	962-459	22,-

Class F2 · Individual weights, knob shape

Test weight material: finely turned stainless steel

Weight	Tol +/- mg	Individual weight, knob shape		Plastic box		Aluminium protected box		Wooden box		DAkkS certificate				
		KERN	€	KERN		€	KERN		€	KERN		€	KERN	€
1 g	0,3	337-01	17,-	347-030-400		2,-	317-010-600		13,-	337-010-200		21,-	962-431	22,-
2 g	0,4	337-02	17,-	347-030-400		2,-	317-020-600		15,-	337-020-200		17,-	962-432	22,-
5 g	0,5	337-03	18,-	347-030-400		2,-	317-030-600		14,-	337-030-200		18,-	962-433	22,-
10 g	0,6	337-04	20,-	347-050-400		2,-	317-040-600		13,-	337-040-200		18,-	962-434	22,-
20 g	0,8	337-05	28,-	347-050-400		2,-	317-050-600		13,-	337-050-200		18,-	962-435	22,-
50 g	1,0	337-06	30,-	347-070-400		2,-	317-060-600		12,-	337-060-200		20,-	962-436	22,-
100 g	1,6	337-07	34,-	347-070-400		2,-	317-070-600		13,-	337-070-200		22,-	962-437	24,-
200 g	3,0	337-08	41,-	347-080-400		2,10	317-080-600		13,-	337-080-200		24,-	962-438	24,-
500 g	8,0	337-09	58,-	347-090-400		3,-	317-090-600		17,-	337-090-200		28,-	962-439	24,-
1 kg	16	337-11	81,-	347-110-400		3,80	317-110-600		25,-	337-110-200		43,-	962-441	24,-
2 kg	30	337-12	124,-	347-120-400		5,-	317-120-600		29,-	337-120-200		41,-	962-442	31,-
5 kg	80	337-13	220,-	347-130-400		11,-	317-130-600		53,-	337-130-200		85,-	962-443	31,-
10 kg	160	337-14	385,-	347-140-400		16,-	317-140-600		75,-	337-140-200		93,-	962-444	31,-
20 kg	300	337-15	750,-	-		-	317-150-600		105,-	337-150-200		385,-	962-445	35,-
50 kg	800	337-16	1430,-	-		-	317-160-600		305,-	337-160-200		590,-	962-446	47,-

Class F2 · Test weights, stackable

Test weight material: finely turned stainless steel

Weight	Tol +/- mg	Test weight		Wooden box		DAkkS certificate		
		KERN	€	KERN		€	KERN	€
 5 kg	80	337-131	550,-	337-131-200		360,-	962-443	31,-
10 kg	160	337-141	640,-	337-141-200		360,-	962-444	31,-
20 kg	300	337-151	820,-	337-151-200		385,-	962-445	35,-
50 kg	800	337-161	2080,-	337-161-200		590,-	962-446	47,-

Class F2 · Block weights

Block weight material: stainless steel glass bead blasted

Weight	Tol +/- mg	Block weight		Aluminium protected box		DAkkS certificate		
		KERN	€	KERN		€	KERN	€
5 kg	80	336-36	520,-	346-060-600		71,-	962-443	31,-
10 kg	160	336-37	720,-	346-070-600		95,-	962-444	31,-
20 kg	300	336-38	920,-	346-080-600		125,-	962-445	35,-
50 kg	800	336-39	2250,-	346-090-600		83,-	962-446	47,-

 New model

Class F2 · Weight sets, knob shape

Test weight material: Milligram weights stainless steel, individual weights finely turned stainless steel

Weight	Knob shape in plastic case			Knob shape in aluminium protected case			Knob shape in wooden case			DAkkS certificate	
	KERN		€	KERN		€	KERN		€	KERN	€
1 mg - 500 mg	328-22		136,-	328-226		220,-	-		-	962-450	122,-
1 mg - 50 g	333-024		365,-	333-026		410,-	333-02		370,-		205,-
1 mg - 100 g	333-034		400,-	333-036		450,-	333-03		405,-	962-402	215,-
1 mg - 200 g	333-044		480,-	333-046		520,-	333-04		490,-	962-403	240,-
1 mg - 500 g	333-054		540,-	333-056		600,-	333-05		560,-	962-404	250,-
1 mg - 1 kg	333-064		710,-	333-066		750,-	333-06		710,-	962-405	265,-
1 mg - 2 kg	333-074		950,-	333-076		1050,-	333-07		980,-	962-406	305,-
1 mg - 5 kg	333-084		1170,-	333-086		1330,-	333-08		1390,-	962-407	320,-
1 mg - 10 kg	-		-	333-096		1980,-	333-09		1720,-	962-408	345,-
1 g - 50 g	334-024		255,-	334-026		275,-	334-02		255,-	962-415	81,-
1 g - 100 g	334-034		290,-	334-036		315,-	334-03		295,-	962-416	94,-
1 g - 200 g	334-044		370,-	334-046		415,-	334-04		380,-	962-417	119,-
1 g - 500 g	334-054		430,-	334-056		490,-	334-05		450,-	962-418	132,-
1 g - 1 kg	334-064		600,-	334-066		620,-	334-06		580,-	962-419	145,-
1 g - 2 kg	334-074		840,-	334-076		940,-	334-07		850,-	962-420	182,-
1 g - 5 kg	334-084		1050,-	334-086		1230,-	334-08		1260,-	962-421	200,-
1 g - 10 kg	-		-	334-096		1750,-	334-09		1590,-	962-422	220,-

TEST WEIGHTS AND BOXES CLASS M1



Milligram weights,
flat polygonal sheet



Individual weights/weight sets,
knob shape, finely turned
stainless steel



Hook weights, finely turned
stainless steel



Slotted weights, finely turned
stainless steel



Plastic box, for individual
weights ≤ 200 g, for hook
weights and slotted weights
≤ 50 g



Plastic box, lined, for
individual weights ≥ 500 g,
for hook weights and
slotted weights ≥ 100 g



Aluminium protected box,
lined, for individual weights



Wooden box, not lined,
for individual weights
≤ 500 g



Wooden box, not lined,
for individual weights ≥ 1 kg



Milligram weight
set in plastic case
(348-22)



Milligram weight
set in aluminium
protected case,
lined (348-226)



Plastic case, lined, for weight sets,
knob shape, finely turned
stainless steel



Aluminium protected case, lined,
for weight sets, knob shape,
finely turned stainless steel



Wooden case, for weight sets,
knob shape, finely turned
stainless steel



Test weights (10 – 50 kg), finely turned
stainless steel KERN 347-141 ff,
optional: Wooden box



Beam bars, aluminium or
stainless steel



Block weights, lacquered cast iron/stainless steel glass bead blasted,
optional: Aluminium protected box, lined



Class M1 · Milligram weights, flat polygonal sheet

Test weight material: stainless steel

Weight	Tol +/- mg	Milligram weight, flat polygonal sheet	Plastic box	Aluminium protected box	Wooden box	DAkkS certificate
		KERN	€ KERN 	€ KERN 	€ KERN 	€ KERN
1 mg	0,20	348-01	5,10 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-651
2 mg	0,20	348-02	5,10 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-652
5 mg	0,20	348-03	5,10 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-653
10 mg	0,25	348-04	5,- 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-654
20 mg	0,30	348-05	5,10 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-655
50 mg	0,40	348-06	5,10 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-656
100 mg	0,50	348-07	5,10 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-657
200 mg	0,60	348-08	5,10 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-658
500 mg	0,80	348-09	5,10 347-009-400	2,- 317-009-600	13,- 338-090-200	34,- 962-659

Class M1 · Individual weights, knob shape

Test weights material: stainless steel

Weight	Tol +/- mg	Individual weight	Plastic box	Aluminium protected box	Wooden box	DAkkS certificate
		KERN	€ KERN 	€ KERN 	€ KERN 	€ KERN
1 g	1,0	347-01	8,70 347-030-400	2,- 317-010-600	13,- 337-010-200	21,- 962-631
2 g	1,2	347-02	8,70 347-030-400	2,- 317-020-600	15,- 337-020-200	17,- 962-632
5 g	1,6	347-03	8,90 347-030-400	2,- 317-030-600	14,- 337-030-200	18,- 962-633
10 g	2,0	347-04	9,30 347-050-400	2,- 317-040-600	13,- 337-040-200	18,- 962-634
20 g	2,5	347-05	16,- 347-050-400	2,- 317-050-600	13,- 337-050-200	18,- 962-635
50 g	3,0	347-06	17,- 347-070-400	2,- 317-060-600	12,- 337-060-200	20,- 962-636
100 g	5,0	347-07	21,- 347-070-400	2,- 317-070-600	13,- 337-070-200	22,- 962-637
200 g	10	347-08	26,- 347-080-400	2,10 317-080-600	13,- 337-080-200	24,- 962-638
500 g	25	347-09	37,- 347-090-400	3,- 317-090-600	17,- 337-090-200	28,- 962-639
1 kg	50	347-11	59,- 347-110-400	3,80 317-110-600	25,- 337-110-200	43,- 962-641
2 kg	100	347-12	98,- 347-120-400	5,- 317-120-600	29,- 337-120-200	41,- 962-642
5 kg	250	347-13	210,- 347-130-400	11,- 317-130-600	53,- 337-130-200	85,- 962-643
10 kg	500	347-14	375,- 347-140-400	16,- 317-140-600	75,- 337-140-200	93,- 962-644

Class M1 · Block weights

Block weight material: lacquered cast iron, surface and edges machined or unmachined (ECO)

Weight	Tol +/- g	Block weight	ECO Block weight	Aluminium protected box	DAkkS certificate
		KERN	€ KERN	€ KERN 	€ KERN
5 kg	0,25	346-86	69,- 346-76	61,- 346-060-600	71,- 962-643
10 kg	0,50	346-87	109,- 346-77	97,- 346-070-600	95,- 962-644
20 kg	1,00	346-88	175,- 346-78	177,- 346-080-600	125,- 962-645
50 kg	2,50	346-89	410,- 346-79	440,- 346-090-600	83,- 962-646

Class M1 · Block weights

Block weight material: stainless steel glass bead blasted

Weight	Tol +/- g	Block weight	Aluminium protected box	DAkkS certificate
		KERN	€ KERN 	€ KERN
5 kg	0,25	346-06	445,- 346-060-600	71,- 962-643
10 kg	0,50	346-07	580,- 346-070-600	95,- 962-644
20 kg	1,00	346-08	810,- 346-080-600	125,- 962-645
50 kg	2,50	346-09	2050,- 346-090-600	83,- 962-646

Class M1 · Test weights, stackable

Test weight material: finely turned stainless steel

Weight	Tol +/- g	Test weight	Wooden box	DAkkS certificate
		KERN	€ KERN	€ KERN
 5 kg	0,25	347-131	540,- 337-131-200	360,- 962-643
10 kg	0,5	347-141	620,- 337-141-200	360,- 962-644
20 kg	1,0	347-151	790,- 337-151-200	385,- 962-645
50 kg	2,5	347-161	2040,- 337-161-200	590,- 962-646

Class M1 · Heavy duty weights, stackable

Heavy duty weight material: lacquered steel

Designed to be lifted with forklift trucks or cranes, delivery time is approx. 6–8 weeks

Dimensions: see internet on www.kern-sohn.com

Weight	Tol +/- g	Heavy duty weight	DAkkS certificate
		KERN	€ KERN
100 kg	5	346-81	1920,- 962-691
200 kg	10	346-82	2930,- 962-692
500 kg	25	346-83	5310,- 962-693
1000 kg	50	346-84	7550,- 962-694
2000 kg	100	346-85	14000,- 962-695

Class M1 · Weight sets, knob shape

Test weight material: Milligram weights stainless steel, individual weights finely turned stainless steel

Weight	Knob shape, in plastic case	Knob shape, in aluminium protected case	Knob shape, in wooden case	DAkkS certificate
	KERN	€ KERN	€ KERN	€ KERN
1 mg - 500 mg	348-22	64,- 348-226	122,- -	- 962-650
1 mg - 50 g	343-024	250,- 343-026	245,- 343-02	230,- 962-601
1 mg - 100 g	343-034	270,- 343-036	265,- 343-03	255,- 962-602
1 mg - 200 g	343-044	320,- 343-046	315,- 343-04	315,- 962-603
1 mg - 500 g	343-054	360,- 343-056	350,- 343-05	365,- 962-604
1 mg - 1 kg	343-064	530,- 343-066	450,- 343-06	540,- 962-605
1 mg - 2 kg	343-074	700,- 343-076	680,- 343-07	730,- 962-606
1 mg - 5 kg	343-084	890,- 343-086	920,- 343-08	1040,- 962-607
1 mg - 10 kg	-	- 343-096	1350,- 343-09	1400,- 962-608
1 g - 50 g	344-024	174,- 344-026	172,- 344-02	153,- 962-615
1 g - 100 g	344-034	194,- 344-036	193,- 344-03	184,- 962-616
1 g - 200 g	344-044	245,- 344-046	245,- 344-04	240,- 962-617
1 g - 500 g	344-054	285,- 344-056	285,- 344-05	300,- 962-618
1 g - 1 kg	344-064	455,- 344-066	380,- 344-06	445,- 962-619
1 g - 2 kg	344-074	630,- 344-076	610,- 344-07	630,- 962-620
1 g - 5 kg	344-084	820,- 344-086	860,- 344-08	930,- 962-621
1 g - 10 kg	-	- 344-096	1300,- 344-09	1310,- 962-622

Tip:

We also offer a large range of heavy-duty weights in other materials, (e.g. stainless steel) and in other forms (e.g. discs) or individual weight containers, please ask for details.

Class M1 · Slotted weights

Slotted weight material: finely turned stainless steel

Weight	Tol +/- mg	Slotted weight	Plastic box, lined		DAkkS certificate			
		KERN	€	KERN		€	KERN	€
1 g	1,0	347-015	28,-	347-030-400		2,-	962-631	18,-
2 g	1,2	347-025	28,-	347-030-400		2,-	962-632	18,-
5 g	1,6	347-035	30,-	347-030-400		2,-	962-633	18,-
10 g	2,0	347-045	33,-	347-030-400		2,-	962-634	18,-
20 g	2,5	347-055	35,-	347-080-400		2,10	962-635	18,-
50 g	3,0	347-065	37,-	347-080-400		2,10	962-636	18,-
100 g	5,0	347-075	43,-	347-090-400		3,-	962-637	20,-
200 g	10	347-085	53,-	347-090-400		3,-	962-638	20,-
500 g	25	347-095	72,-	347-110-400		3,80	962-639	20,-
1 kg	50	347-115	129,-	347-130-400		11,-	962-641	20,-
2 kg	100	347-125	159,-	347-130-400		11,-	962-642	21,-
5 kg	250	347-135	285,-	347-140-400		16,-	962-643	21,-
10 kg	500	347-145	425,-	347-140-400		16,-	962-644	21,-



Class M1 · Beam bars, for fixing slotted weights

Beam bars material: 10 g: aluminium, 100 g–1 kg: finely turned stainless steel

Own weight beam bar	Maximum total load ⁽¹⁾	Largest slotted weight possible	Material	Length	Beam bar	DAkkS certificate		
					KERN	€	KERN	€
10 g	200 g	100 g	Aluminium	117,5	347-445-100*	56,-	962-634	18,-
100 g	2 kg	1 kg	Stainless steel	238	347-075-100**	77,-	962-637	20,-
500 g	20 kg	10 kg	Stainless steel	639	347-095-100***	127,-	962-639	20,-
1 kg	40 kg	10 kg	Stainless steel	1020	347-115-100***	160,-	962-641	20,-

⁽¹⁾ is exclusive of the own weight of the beam bar, e.g. the maximum possible total weight is calculated from “Maximum total load” + “own weight beam bar”

Class M1 · Slotted weights

Slotted weight material: finely turned stainless steel (only compatible with the 347-...7-100 series supporting bars)

Weight	Tol +/- mg	Slotted weight	DAkkS certificate		
		KERN	€	KERN	€
5 g	1,6	347-037	30,-	962-633	18,-
10 g	2,0	347-047	31,-	962-634	18,-
20 g	2,5	347-057	34,-	962-635	18,-
50 g	3,0	347-067	39,-	962-636	18,-
100 g	5,0	347-077	67,-	962-637	20,-
200 g	10	347-087	75,-	962-638	20,-
500 g	25	347-097	85,-	962-639	20,-
1 kg	50	347-117	182,-	962-641	20,-
2 kg	100	347-127	215,-	962-642	21,-
5 kg	250	347-137	410,-	962-643	21,-
10 kg	500	347-147	520,-	962-644	21,-



Class M1 · Beam bars, for fixing slotted weights

Beam bars material: 10 g: aluminium, 100 g–1 kg: finely turned stainless steel (only compatible with the 347-...7 series slotted weights)

Own weight beam bar	Maximum total load ⁽¹⁾	Largest slotted weight possible	Material	Length	Tol +/- mg	Beam bar	DAkkS certificate		
						KERN	€	KERN	€
1 kg	125 kg	10 kg	Stainless steel	300 mm	50	347-117-100	185,-	962-641	20,-
5 kg	161 kg	10 kg	Stainless steel	600 mm	250	347-137-100	430,-	962-643	21,-
10 kg	180 kg	10 kg	Stainless steel	800 mm	500	347-147-100	560,-	962-644	21,-

⁽¹⁾ is exclusive of the own weight of the beam bar, e.g. the maximum possible total weight is calculated from “Maximum total load” + “own weight beam bar”

Class M1 · Hook weights

Hook weight material: finely turned stainless steel

Weight	Tol +/- mg	Hook weight	Plastic box, lined			DAkkS certificate		
KERN			€	KERN		€	KERN	€
1 g	1,0	347-016	26,-	347-030-400		2,-	962-631	18,-
2 g	1,2	347-026	26,-	347-030-400		2,-	962-632	18,-
5 g	1,6	347-036	27,-	347-030-400		2,-	962-633	18,-
10 g	2,0	347-046	27,-	347-050-400		2,-	962-634	18,-
20 g	2,5	347-056	28,-	347-050-400		2,-	962-635	18,-
50 g	3,0	347-066	33,-	347-070-400		2,-	962-636	18,-
100 g	5,0	347-076	37,-	347-090-400		3,-	962-637	20,-
200 g	10,0	347-086	46,-	347-090-400		3,-	962-638	20,-
500 g	25,0	347-096	79,-	347-110-400		3,80	962-639	20,-
1 kg	50,0	347-116	98,-	347-120-400		5,-	962-641	20,-
2 kg	100,0	347-126	140,-	347-130-400		11,-	962-642	21,-
5 kg	250,0	347-136	250,-	347-140-400		16,-	962-643	21,-
10 kg	500,0	347-146	425,-	-		-	962-644	21,-



Newton weights (N):

All hook and slotted weights as well as beam bars are available **with N adjustment according to M1 tolerances**, additional price € 8,-/pc. We need to know the exact location of use of the newton weights (street, postcode, city and country).

DAkkS calibration certificate for N weights: identical to DAkkS prices for individual weights **M1**, additional price € 8,-

TEST WEIGHTS AND BOXES

CLASSES M2 · M3



Individual weights/Weight sets,
knob shape, stainless steel



Individual weights/Weight sets,
knob shape, lacquered cast iron



Block weights,
lacquered cast iron



Plastic box, lined,
for individual weights



Aluminium protected box,
lined, for individual weights



Wooden box, not lined, for
individual weights ≤ 500 g,
❗ not appropriate for
cast iron weights



Wooden box, not lined, for
individual weights ≥ 1 kg,
❗ not appropriate for
cast iron weights



Aluminium protected case,
lined, for block weights



Aluminium protected case, lined, for weight
sets knob shape, finely turned stainless steel,
❗ not appropriate for cast iron weights



Wooden case, for weight sets, knob shape,
finely turned stainless steel



Wooden block, for weight sets,
knob shape, lacquered cast iron

Class M2 · Individual weights, knob shape

Test weight material: finely turned stainless steel

Weight	Tol +/- mg	Individual weight, knob shape	Plastic box		Aluminium protected box		Wooden box		DAkkS certificate	
		KERN	€	KERN	€	KERN	€	KERN	€	KERN
1 g	3	357-01	8,70	347-030-400	2,-	317-010-600	13,-	337-010-200	21,-	962-631
2 g	4	357-02	8,70	347-030-400	2,-	317-020-600	15,-	337-020-200	17,-	962-632
5 g	5	357-03	8,90	347-030-400	2,-	317-030-600	14,-	337-030-200	18,-	962-633
10 g	6	357-04	9,30	347-050-400	2,-	317-040-600	13,-	337-040-200	18,-	962-634
20 g	8	357-05	16,-	347-050-400	2,-	317-050-600	13,-	337-050-200	18,-	962-635
50 g	10	357-06	17,-	347-070-400	2,-	317-060-600	12,-	337-060-200	20,-	962-636
100 g	16	357-07	21,-	347-070-400	2,-	317-070-600	13,-	337-070-200	22,-	962-637
200 g	30	357-08	26,-	347-080-400	2,10	317-080-600	13,-	337-080-200	24,-	962-638
500 g	80	357-09	36,-	347-090-400	3,-	317-090-600	17,-	337-090-200	28,-	962-639
1 kg	160	357-11	59,-	347-110-400	3,80	317-110-600	25,-	337-110-200	43,-	962-641
2 kg	300	357-12	94,-	347-120-400	5,-	317-120-600	29,-	337-120-200	41,-	962-642
5 kg	800	357-13	198,-	347-130-400	11,-	317-130-600	53,-	337-130-200	85,-	962-643
10 kg	1600	357-14	330,-	347-140-400	16,-	317-140-600	75,-	337-140-200	93,-	962-644

Class M2 · Block weights

Block weight material: lacquered cast iron, surface and edges machined or unmachined (ECO)

Weight	Tol +/- g	Block weight	ECO block weight		Aluminium protected box		DAkkS certificate	
		KERN	€	KERN	€	KERN	€	KERN
5 kg	0,8	356-86	69,-	356-76	61,-	346-060-600	71,-	962-643
10 kg	1,6	356-87	116,-	356-77	97,-	346-070-600	95,-	962-644
20 kg	3,0	356-88	196,-	356-78	177,-	346-080-600	125,-	962-645
50 kg	8,0	356-89	480,-	356-79	430,-	346-090-600	83,-	962-646

Class M2 · Weight sets, knob shape

Test weight material: finely turned stainless steel

Weight	Knob shape, in aluminium protected case		Knob shape, in wooden case		DAkkS certificate	
	KERN	€	KERN	€	KERN	€
1 g – 50 g	354-026	172,-	354-02	153,-	962-615	50,-
1 g – 100 g	354-036	193,-	354-03	184,-	962-616	60,-
1 g – 200 g	354-046	245,-	354-04	240,-	962-617	73,-
1 g – 500 g	354-056	285,-	354-05	300,-	962-618	82,-
1 g – 1 kg	354-066	380,-	354-06	440,-	962-619	90,-
1 g – 2 kg	354-076	600,-	354-07	630,-	962-620	108,-
1 g – 5 kg	354-086	820,-	354-08	910,-	962-621	116,-
1 g – 10 kg	354-096	2100,-	354-09	1290,-	962-622	126,-

Class M3 · Individual weights, knob shape

Test weight material: finely turned stainless steel

Weight	Tol +/- mg	Individual weight, knob shape	Plastic box	Aluminium protected box	Wooden box	DAkkS certificate
		KERN	€ KERN	€ KERN	€ KERN	€ KERN
1 g	10	367-01	7,60 347-030-400	2,- 317-010-600	13,- 337-010-200	21,- 962-631 18,-
2 g	12	367-02	7,70 347-030-400	2,- 317-020-600	15,- 337-020-200	17,- 962-632 18,-
5 g	16	367-03	7,80 347-030-400	2,- 317-030-600	14,- 337-030-200	18,- 962-633 18,-
10 g	20	367-04	8,20 347-050-400	2,- 317-040-600	13,- 337-040-200	18,- 962-634 18,-
20 g	25	367-05	14,- 347-050-400	2,- 317-050-600	13,- 337-050-200	18,- 962-635 18,-
50 g	30	367-06	15,- 347-070-400	2,- 317-060-600	12,- 337-060-200	20,- 962-636 18,-
100 g	50	367-07	18,- 347-070-400	2,- 317-070-600	13,- 337-070-200	22,- 962-637 20,-
200 g	100	367-08	24,- 347-080-400	2,10 317-080-600	13,- 337-080-200	24,- 962-638 20,-
500 g	250	367-09	34,- 347-090-400	3,- 317-090-600	17,- 337-090-200	28,- 962-639 20,-
1 kg	500	367-11	57,- 347-110-400	3,80 317-110-600	25,- 337-110-200	43,- 962-641 20,-
2 kg	1000	367-12	92,- 347-120-400	5,- 317-120-600	32,- 337-120-200	41,- 962-642 21,-

Class M3 · Individual weights, knob and cylindrical shape

Test weight material: lacquered cast iron

Weight	Tol +/- g	Individual weight, knob and cylindrical shape	DAkkS certificate
		KERN	€ KERN
100 g*	0,05	366-91	12,- 962-637 20,-
200 g*	0,10	366-92	13,- 962-638 20,-
500 g**	0,25	366-93	18,- 962-639 20,-
1 kg**	0,50	366-94	22,- 962-641 20,-
2 kg**	1,0	366-95	31,- 962-642 21,-
5 kg**	2,5	366-96	63,- 962-643 21,-
10 kg**	5,0	366-97	102,- 962-644 21,-



Class M3 · Block weights

Block weight material: lacquered cast iron, surface and edges machined or unmachined (ECO)

Weight	Tol +/- g	Block weight	ECO block weight	Aluminium protected box	DAkkS certificate
		KERN	€ KERN	€ KERN	€ KERN
5 kg	2,5	366-86	69,- 366-76	61,- 346-060-600	71,- 962-643 21,-
10 kg	5,0	366-87	116,- 366-77	97,- 346-070-600	95,- 962-644 21,-
20 kg	10	366-88	205,- 366-78	177,- 346-080-600	125,- 962-645 26,-
50 kg	25	366-89	495,- 366-79	430,- 346-090-600	83,- 962-646 29,-

Class M3 · Weight sets, knob and cylindrical shape

Test weight material: ≤ 50 g stainless steel, ≥ 100 g lacquered cast iron

Weight	Knob and cylindrical shape, in wooden block	DAkkS certificate
	KERN	€ KERN
1 g – 1 kg	362-96	240,- 962-619 90,-
1 g – 2 kg	362-97	340,- 962-620 108,-
1 g – 5 kg	362-98	485,- 962-621 116,-
1 g – 10 kg	362-99	590,- 962-622 126,-

Weight set
1 g – 10 kg

Tweezers, weight grips, gloves, dusting brush



Tweezers
to be able to safely grip small test weights

For class	For weight	Length	Version	KERN	€
E1 - M3	1 mg - 200 g	105 mm	1 Stainless steel with silicone-coated tips	315-243	25,-
E1 - M3	500 g - 2 kg	250 mm	1 Stainless steel with silicone-coated tips	315-245	68,-
E1 - M3	≤ 5 g	130 mm	2 Stainless steel, curved, high-quality plastic tips	315-246	4,10
E1 - M3	≤ 5 g	136 mm	3 Stainless steel, straight, high quality plastic tips	315-247	4,10
E1 - M3	≤ 200 g	225 mm	4 Stainless steel, straight, high-quality plastic tips, with a special shape for gripping weights of various shapes and sizes	315-248	36,-
F2 - M3	1 mg - 200 g	100 mm	5 Stainless steel	335-240	16,-
E1 - M3	1 mg - 200 g	100 mm	6 Plastic	315-242	5,35

Weight grip
plastic coated

For class	For knob shaped weights	KERN	€
E1 - M3	2 kg	315-273	32,-
E1 - M3	5 kg	315-274	36,-
E1 - M3	10 kg	315-275	41,-
E1 - M3	20 kg	315-276	61,-

! not appropriate for cast iron weights



Gloves
Cotton, 1 pair. Help to protect the test weights when being used daily, from grease from fingers, damp etc.
Suitable for test weights up to 2 kg.

KERN	€
317-280	4,60

Gloves
Leather/cotton, 1 pair. Help to protect the test weights when being used daily, from grease from fingers, damp etc.
Ideal for test weights from 2 kg.

KERN	€
317-290	6,60

Premium gloves
Nylon, 1 pair.
Particularly elastic, one size fits all, with special fingertip coating to ensure a safe grip. Helps to protect the test weights in everyday use from grease from fingers, damp etc.
Ideal for all test weights.

KERN	€
317-281	9,-



Dusting brush
to clean the weights

KERN	€
318-270	4,10



Bellows
for cleaning weights

KERN	€
318-271	6,10



Microfibre cloth
for cleaning weights

KERN	€
318-272	6,50

Boxes for individual weights



For weights ≤ 200 g, OIML class E1 - E2:
Box with lid

For weights ≥ 500 g, OIML class E1 - M3:
Box with screw cap

Box material: Plastic, lined, suitable for single weights, KERN No. 307, 316, 317, 327, 337, 347

Box material: Plastic, not lined, suitable for single weights, KERN No. 307, 316, 317, 327, 337, 347

Plastic box, lined
for single weights E1 - E2

Plastic box, not lined
for single weights E1 - M3

For weights	KERN	€
1 - 500 mg (single)	347-009-400	2,-
1 - 2 g (single)	317-020-400	4,80
5 g	317-030-400	4,80
10 g	317-040-400	4,80
20 g	317-050-400	4,80
50 g	317-060-400	6,30
100 g	317-070-400	7,80
200 g	317-080-400	7,20
500 g	317-090-400	8,70
1 kg	317-110-400	10,-
2 kg	317-120-400	13,-
5 kg	317-130-400	27,-
10 kg	317-140-400	25,-

For weights	KERN	€
1 - 500 mg (single)	347-009-400	2,-
1 g - 5 g (single)	347-030-400	2,-
10 g - 20 g (single)	347-050-400	2,-
50 g - 100 g (single)	347-070-400	2,-
200 g	347-080-400	2,10
500 g	347-090-400	3,-
1 kg	347-110-400	3,80
2 kg	347-120-400	5,-
5 kg	347-130-400	11,-
10 kg	347-140-400	16,-



For weights ≤ 500 g, OIML class E1 - F1
For weights ≥ 1 kg, OIML class E1 - F1

For weights ≤ 500 g, OIML class F2 - M3
For weights ≥ 1 kg, OIML class F2 - M3

For test weights ≥ 10 kg, OIML class F1 - M1

Box material: Wood, lined, suitable for single weights, KERN No. 307, 316, 317, 326, 327

Box material: Wood, not lined, suitable for single weights, KERN No. 337, 347, 357, 367
■ not suitable for cast iron weights

Box material: Wood, lined/not lined, suitable for single weights, KERN No. 327, 337, 347
■ not suitable for cast iron weights

Wooden box, lined
for single weights E1 - F1

Wooden box, not lined
for single weights F2 - M3

Wooden box, not lined
for test weights F1 - M1

For weights	KERN	€
-	-	-
1 g	317-010-100	32,-
2 g	317-020-100	30,-
5 g	317-030-100	32,-
10 g	317-040-100	30,-
20 g	317-050-100	31,-
50 g	317-060-100	35,-
100 g	317-070-100	35,-
200 g	317-080-100	39,-
500 g	317-090-100	46,-
1 kg	317-110-100	61,-
2 kg	317-120-100	68,-
5 kg	317-130-100	101,-
10 kg	317-140-100	123,-
20 kg	317-150-100	580,-
50 kg	317-160-100	710,-

For weights	KERN	€
1 - 500 mg (single)	338-090-200	34,-
1 g	337-010-200	21,-
2 g	337-020-200	17,-
5 g	337-030-200	18,-
10 g	337-040-200	18,-
20 g	337-050-200	18,-
50 g	337-060-200	20,-
100 g	337-070-200	22,-
200 g	337-080-200	24,-
500 g	337-090-200	28,-
1 kg	337-110-200	43,-
2 kg	337-120-200	41,-
5 kg	337-130-200	85,-
10 kg	337-140-200	93,-
20 kg	337-150-200	385,-
50 kg	337-160-200	590,-

For weights	KERN	€
5 kg	337-131-200	360,-
10 kg	337-141-200	360,-
20 kg	337-151-200	385,-
50 kg	337-161-200	590,-

Wooden box, lined
for test weights F1

For weights	KERN	€
5 kg	337-131-100	465,-
10 kg	337-141-100	300,-
20 kg	337-151-100	325,-
50 kg	337-161-100	510,-

Boxes for individual weights



For weights ≤ 5 kg, OIML class E1 – M3

Box material: Aluminium protected, lined, suitable for mg and single weights, KERN No. 307, 308, 316, 317, 318, 326, 327, 328, 337, 338, 347, 348, 357, 367

❗ not suitable for cast iron weights

Aluminium protected box, lined

for individual weights, knob and compact shape, class E1 – M3

For weights	KERN		€
1 – 500 mg (single)	317-009-600		13,-
1 g	317-010-600		13,-
2 g	317-020-600		15,-
5 g	317-030-600		14,-
10 g	317-040-600		13,-
20 g	317-050-600		13,-
50 g	317-060-600		12,-
100 g	317-070-600		13,-
200 g	317-080-600		13,-
500 g	317-090-600		17,-
1 kg	317-110-600		25,-
2 kg	317-120-600		29,-
5 kg	317-130-600		53,-



For weights ≤ 10 kg, OIML class E1 – M3

Box material: Aluminium protected, lined, suitable for single weights, KERN No. 307, 316, 317, 326, 327, 337, 347, 357, 367

❗ not suitable for cast iron weights

Aluminium protected box, lined

for individual weights, knob and compact shape, class E1 – M3

For weights	KERN		€
10 kg	317-140-600		75,-
20 kg	317-150-600		105,-
50 kg	317-160-600		305,-



For block weight ≥ 5 kg, OIML class F1 – M3

Box material: Aluminium protected, lined, suitable for block weights, KERN No. 326, 336, 346, 356, 366

Aluminium protected box, lined

for individual weights F1 – M3

For weights	KERN		€
5 kg	346-060-600		71,-
10 kg	346-070-600		95,-
20 kg	346-080-600		125,-
50 kg	346-090-600		83,-

Clean room boxes



NEW



For weights ≤ 500 g, OIML class E1 – M1

For weights 1 g – 2 kg, OIML class E1 – M1

Box material: POM (Polyoxymethylen), not lined, suitable for single weights, KERN No. 307, 316, 317, 327, 337, 347

Polyoxymethylene boxes POM, unlined

for single weights E1 – M1

For weights	KERN		€
1 – 500 mg (single)	317-009-700		91,-
1 g	317-010-700		91,-
2 g	317-020-700		91,-
5 g	317-030-700		91,-
10 g	317-040-700		91,-
20 g	317-050-700		91,-
50 g	317-060-700		91,-
100 g	317-070-700		91,-
200 g	317-080-700		101,-
500 g	317-090-700		139,-
1 kg	317-110-700		185,-
2 kg	317-120-700		215,-



NEW



For weights 10 kg – 20 kg, OIML class E1 – M1

*Box with handle

Box material: POM (Polyoxymethylen), not lined, suitable for single weights, KERN No. 307, 316, 317, 327, 337, 347

Polyoxymethylene boxes POM, unlined

for single weights E1 – M1

For weights	KERN		€
5 kg*	317-130-700		495,-
10 kg*	317-140-700		670,-
20 kg*	317-150-700		810,-

Carrying cases/boxes for individual weight sets

Individual weight sets:

You can create your own "tailor-made" individual weight sets yourself.

KERN will customise your own personal wooden box/plastic carrying case.

The largest individual weight which will fit is given in the table.

Sample order:

Your individual weight set (class F1):

1 × 50 g, 2 × 100 g, 1 × 500 g, 2 × 1 kg, 1 × 2 kg.

The correct individual box is **KERN No. 313-080-400** (plastic) or **KERN No. 315-070-100** (wood, lined)



Plastic case

for individual weight sets classes E1 – M3, not appropriate for cast iron weights

Largest possible weight	KERN		€
≤ 500 g	313-050-400		77,-
≤ 5 kg	313-080-400		194,-

Wooden case

lined, for individual weight sets classes E1 – F1
* with side handles

Largest possible weight	KERN		€
≤ 200 g	315-040-100		235,-
≤ 1 kg	315-060-100		340,-
≤ 2 kg	315-070-100		205,-
≤ 5 kg*	315-080-100		325,-
≤ 10 kg*	315-090-100		360,-

Wooden case not lined, for individual weight set classes F2 – M3, not appropriate for cast iron weights * with side handles

Largest possible weight	KERN		€
≤ 200 g	335-040-200		148,-
≤ 500 g	335-050-200		148,-
≤ 1 kg	335-060-200		210,-
≤ 2 kg	335-070-200		205,-
≤ 5 kg*	335-080-200		325,-
≤ 10 kg*	335-090-200		360,-

Carrying cases for standard weight sets



Fig. shows
313-010-600

Aluminium protected case for safe storage and transportation under harsh industrial conditions.

Plastic case for weight sets

with standard denomination classes E1 – M3, not appropriate for cast iron weights

Largest possible weight	KERN		€
≤ 500 g	313-052-400		77,-
≤ 5 kg	313-082-400		194,-

Aluminium protected case

for weight sets with standard denomination classes E1 – M2
*no handle **1 front handle ***2 side handles

For weights	For class	KERN		€
1 mg - 500 mg	E1 - M1	313-010-600*		65,-
1 mg - 50 g	E1 - M1	313-020-600*		94,-
1 mg - 100 g	E1 - M1	313-030-600*		103,-
1 mg - 200 g	E1 - M1	313-040-600*		109,-
1 mg - 500 g	E1 - M1	313-050-600*		132,-
1 mg - 1 kg	E1 - M1	313-060-600*		161,-
1 mg - 2 kg	E1 - M1	313-070-600**		189,-
1 mg - 5 kg	E1 - M1	313-080-600***		250,-
1 mg - 10 kg	E1 - M1	313-090-600***		330,-
1 g - 50 g	E1 - M2	314-020-600*		89,-
1 g - 100 g	E1 - M2	314-030-600*		98,-
1 g - 200 g	E1 - M2	314-040-600*		104,-
1 g - 500 g	E1 - M2	314-050-600*		127,-
1 g - 1 kg	E1 - M2	314-060-600*		156,-
1 g - 2 kg	E1 - M2	314-070-600*		184,-
1 g - 5 kg	E1 - M2	314-080-600***		245,-
1 g - 10 kg	E1 - M2	314-090-600***		330,-

Weight containers for rectangular weights or other test weights, stainless steel glass bead blasted, adjusted to OIML class M1

Preconfigured weight containers for testing high-load floor scales, pallet scales, pallet truck scales, crane scales, etc. This can also be used for storing the weights. This means the weight container and the weights can be placed on the balance in one go, saving you time and money. The weight container is adjusted to OIML accuracy class M1. Other OIML accuracy classes are also available, please ask.

Weight of the weight container, OIML class M1	Tol +/- g	Possible equipment, rectangular weights, OIML class M1	Maximum total weight (weight container incl. weights)	Price (weight container excluding weights)	
				KERN	€
20 kg	1,0	5 × 20 kg	120 kg	346-022-005	1610,-
40 kg	1,5	8 × 20 kg	200 kg	346-042-008	2070,-
50 kg	2,5	10 × 20 kg	250 kg	346-052-010	2070,-
50 kg	2,5	4 × 50 kg	250 kg	346-055-004	2070,-
50 kg	2,5	9 × 50 kg	500 kg	346-055-009	2070,-
60 kg	3,0	8 × 50 kg and 2 × 20 kg	500 kg	346-065-009	2250,-



Weight of the weight container, OIML class M1	Tol +/- g	Possible equipment, test weights, OIML class M1	Maximum total weight (weight container incl. weights)	Price (weight container excluding weights)	
				KERN	€
20 kg	1,0	max. 10 × 10 kg or 5 × 20 kg	120 kg	347-022-005	1610,-
40 kg	2,0	max. 16 × 10 kg or 8 × 20 kg	200 kg	347-042-008	1890,-
50 kg	2,5	max. 20 × 10 kg or 10 × 20 kg	250 kg	347-052-010	2070,-
60 kg	3,0	max. 22 × 20 kg	500 kg	347-062-022	2250,-



Individual weight containers for rectangular weights or other test weights, calibrated to OIML class M1

Individual weight carriers for testing high capacity floor scales, pallet scales, pallet truck scales, crane scales, etc. This can also be used for storing the weights. This means the weight container and the weights can be placed on the scale in one go, saving time and money.

The weight container can be calibrated to OIML accuracy classes M1 – M3. On request, KERN will make you a “tailor-made” weight carrier to your specifications.

Example:

3 block weights	each 50 kg, class M1	=	150 kg
1 weight container	each 50 kg, class M1	=	50 kg
Total		=	200 kg

Weight of the weight container, OIML class M1	Price	
	KERN	€
Individual weight container for rectangular weights	346-000-000	1700,-
Individual weight container for test weights	347-000-000	1700,-



Example illustration



ACCREDITED CALIBRATION, VERIFICATION SERVICE

The DAkkS (German accreditation body)

The DAkkS is the national accreditation body of the Federal Republic of Germany. According to Regulation (EC) No. 765/2008 and the Accreditation Body Act (AkkStelleG), the DAkkS acts in the public interest as the sole service provider for accreditation in Germany.

In order to be able to fulfil its sovereign accreditation tasks, the DAkkS was entrusted by the Federal Government. As an entrusted body, the DAkkS is subject to federal supervision.

Only an accredited calibration laboratory can issue a DAkkS calibration certificate. This defines not only the measuring method as well as the measuring result, but also gives information on tracing the test medium to national standards and the relevant uncertainty of measurement.

-
- > **You are certified to ...**
ISO 9001, QS 9000, GLP, GMP, TS16949
 - > **You need ...**
to control your measuring equipment
 - > **Our solution ...**
DAkkS calibration certificate; (traceability, measuring uncertainty, internationally recognised)
-

KERN – Precision is our business

The KERN calibration laboratory for electronic balances and weights has been accredited by DKD since 1994 and today is one of the most modern and best-equipped DAkkS calibration laboratories for balances, test weights and force measurement in Europe.

Thanks to the high level of automation, we can carry out DAkkS calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

Do you have any further requests or questions on this matter?
We would be pleased to help you or visit us on the web
at www.kern-lab.com

Accredited calibration

Why? DAkkS calibration is always necessary when checking equipment (balance or test weight) is to be used in a QM process (e.g. to ISO 9000ff, GS 9000, TS 16949, VDA 6.1, FDA, GLP, GMP, GMP etc.)

What? Any checking equipment in proper condition can be DAkkS calibrated

How? Determination of accuracy throughout the world by a laboratory which is accredited to DIN EN ISO 17025. Traceability to internationally recognised standards. The DAkkS calibration certificate confirms both the measurement characteristics of the checking equipment and the general requirements for the control of checking equipment.

Where? Internationally recognised – this is monitored by ILAC (International Laboratory Accreditation Cooperation) and e.g. DAkkS (German calibration service) in Germany

When? The operator control the use of checking equipment and periodic recalibration time intervals themselves

Range of services:

Area accredited by DAkkS:

- DAkkS calibration of balances with a maximum load of up to 50.000 kg
- DAkkS calibration of weights in the range of 1 mg – 2.500 kg. Calibrations can be carried out in the following classes: E1, E2, F1, F2, M1, M2, M3
- DAkkS calibration of force gauges and force transducers
- Volume determination for weights of accuracy class E1
- DAkkS calibration of temperature and humidity sensors

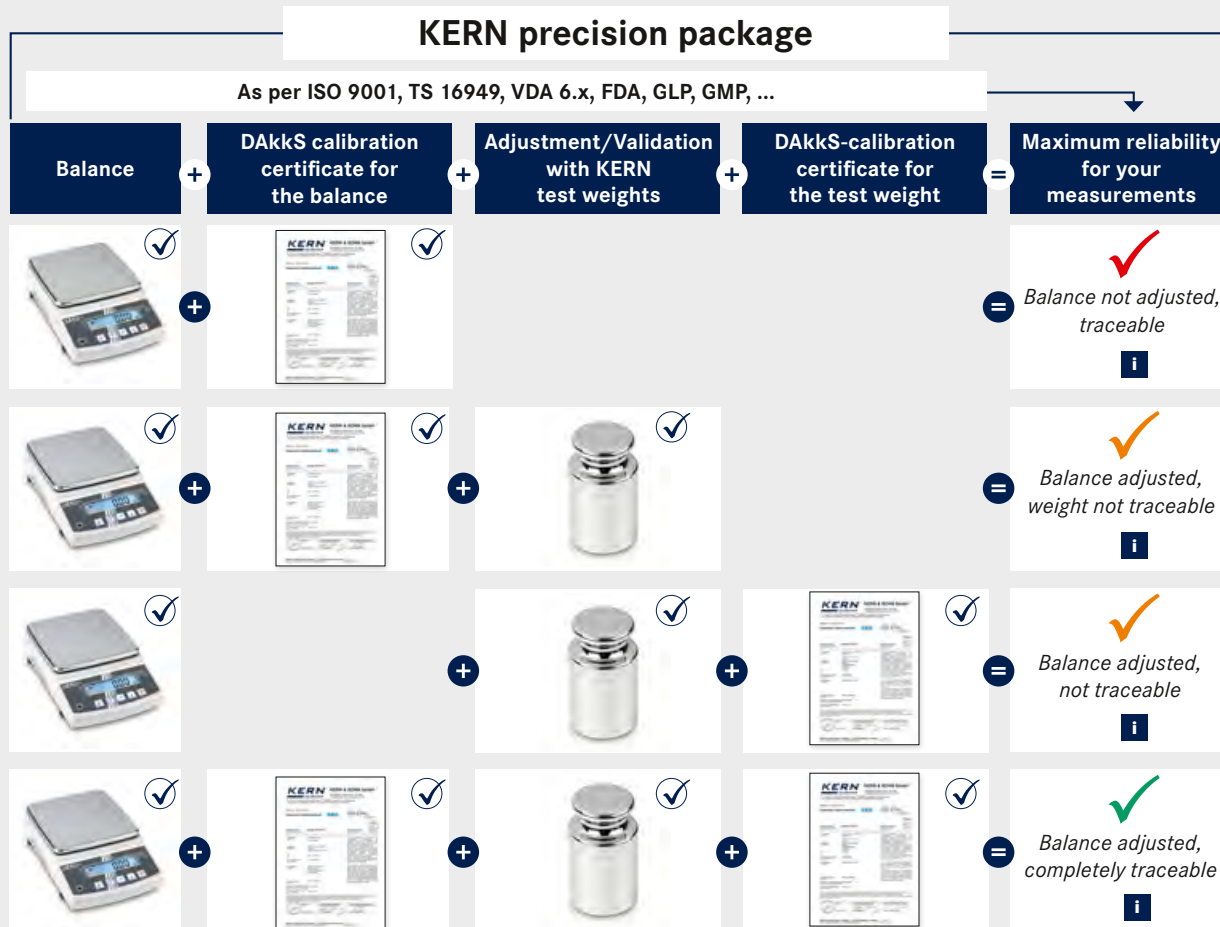
Area offered as factory calibration:

- Measuring of sensitivity (magnetic characteristics)
- Factory calibration in various sizes: Force (sensors and measuring devices), hardness (Shore, UCI, Leeb, etc.), thickness of coatings and walls, torque wrench testing devices, and much more
- Conformity assessments and recalibration of balances and weights at the KERN verification point, working closely with the verification authorities.

And on top of all these services, we also offer additional services.

Balance & weight in the quality management system

Do you already use all the modules of the KERN precision package for maximum accuracy and reliability of your balance?



Information and ordering:
kern-sohn.com/qmb

The KERN calibration laboratory (D-K-19408-01-00)

KERN has a highly-automated DAkkS laboratory with accreditation to DIN EN ISO/IEC 17025 in numerous fields.

By using the most modern calibration technology with high-end calibration robots in fully air-conditioned laboratories, the measurement uncertainty and process times are reduced to a minimum, and also the quality of the calibration is increased.

As an accredited and certified calibration service provider with decades of experience, KERN offers you an extensive range of services, which will leave no demand unfulfilled. The accreditation applies to the extent specified in the appendix to the certificate D-K-19408-01-00.

We offer the following services:

Balances

- ▶ Accredited calibration up to 50 t
- ▶ Minimum sample weight (in use)
- ▶ Usage accuracy
- ▶ Adjustment at the location of installation
- ▶ Certificate of conformity
- ▶ Equipment qualification:
 - > Design qualification (DQ)
 - > Installation qualification (IQ)
 - > Function qualification (OQ)
 - > Performance qualification (PQ)
 - > Maintenance qualification (MQ)
- ▶ Conformity assessment/Verification

Weights

- ▶ Accredited calibration up to 2.5 t (OIML classes E1 – M3)
- ▶ Volume determination for OIML class E1
- ▶ Measuring of sensitivity (magnetic characteristics)
- ▶ Verification (where possible)

Force measuring devices and force transducers

- ▶ Accredited calibration up to 5 kN

Temperature and humidity sensors

- ▶ Accredited calibration up to 50 °C resp. 75 %

Factory calibration for

- ▶ Force measuring devices and force transducers ≤ 250 kN
- ▶ Hardness
- ▶ Layer thickness
- ▶ Material thickness
- ▶ Temperature of moisture analysers

Our commitment to satisfy our customers never stops. Perhaps this is one of the reasons why our roots can perhaps be traced so far back in history.
Discover the KERN route to success: fast – competent – reliable – versatile!

The order process

- 1** You will receive a **reminder** that your test equipment is due or you will generate online a quotation for new or existing test equipment
- 2** Submission or collection of your test equipment
- 3** Initial inspection of your goods, to check that they are suitable for calibration, and are complete, etc.
- 4** You will get a detailed **order confirmation**
- 5** Our experts will carry out **initial calibration**
- 6** Checked for conformity with required tolerances and if required, any **necessary actions** which arise from this are carried out
- 7** Before these actions are carried out, we will contact you (in so far as no **individual processing** has been agreed with you beforehand)
- 8** After your **approval** the necessary actions will be implemented and the calibration will be completed
- 9** After that your **test equipment will be returned** to you without delay, together with the appropriate calibration certificates
- 10** We will **monitor your recalibration periods** and will send you a reminder about your next calibration, free of charge

Our service

► Reminder service

The continuous cyclic recalibration of your checking equipment is an integral part of the reliable management of test equipment. You can rely on us to support you, and we will remind you in time, free of charge, when the next recalibration is due. In addition, you have the option of managing your test equipment online by yourself (cf. **1**, **10**).

► Quote generator

You will be impressed by our price-to-performance ratio. Request a non-binding quotation or create it yourself to suit your specifications at www.kern-lab.com (cf. **1**)

► Collection service

We will be pleased to arrange a pick up by our forwarding agent the goods from your premises. You only need to tell us the weight and dimensions of your package and leave the rest to us (cf. **2**)

► Repair and reconditioning of balances and weights

KERN will get your weights back up to standard, regardless of the manufacturer. Whether it is adjustment, marking, sand blasting or lacquering – the aim here is compliance and long-term stability. Any repairs of balances and instruments which may be necessary can be carried out quickly and easily (cf. **5**, **6**)

► Individual processing

In order to avoid delays with future orders, we would be pleased to incorporate your individual requirements for future processing of such calibration results. Even for smaller issues such as the printing of calibration certificates (stapling, punching, double-sided) we can work to your requirements (cf. **8**).

► Express service and dispatch

If you need a particularly fast service, you can use your DAKS express service. You will receive your test equipment after only 2 days (cf. **9**).

www.kern-lab.com – the central portal for everything you need to know about the extensive KERN calibration services

On our website you will always find the latest news and useful information about testing and measuring devices, calibration, legal metrology and expansions to our range of services. You will also find numerous online services on the website.

Database supported management of test equipment

Information on your test equipment which has been calibrated by us is stored in our database. In this way it is possible to make trend calculations. You will therefore get an overview about the long-term stability and trend behaviour of your test equipment as well as the necessary recalibration period can easily be determined and specified.

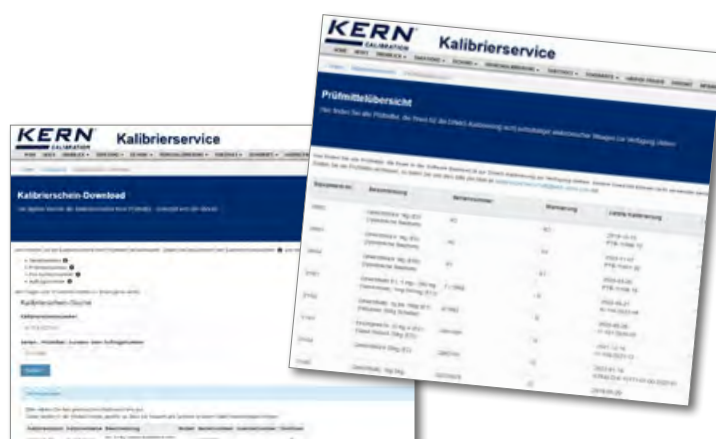
Paperless documentation

So there is no administrative effort, we can handle all calibration documentation in a paperless process. From quotation, through to order confirmation, delivery note and invoice right up to calibration certificate, you will receive all documents by e-mail or you can retrieve them online. Would you prefer to receive your certificate or your invoice in paper form, for example? Of course this is not a problem either.

We will send you everything you require by post.

Calibration certificate download

By using our download service you can easily download your calibration certificates as soon as the calibration work is complete and you will have access to them at any time in the future. Simply create your user account on www.kern-lab.com and you will never have to look for your certificates again.



Accredited Calibration of Balances

Any balance will only give correct results if it is checked regularly, i.e. calibrated correctly and adjusted when required. A balance is only a reliable measuring and checking tool if it is calibrated and this calibration is documented. The issued calibration certificates with accreditation symbol are proof of the metrological traceability to national and international standards, as required by the DIN EN ISO 9000 and DIN EN ISO/IEC 17025 standards, amongst others. KERN recommends a recalibration period of one year. The standard does not give a defined recalibration period. KERN recommends that, with intensive (daily) use, you to recalibrate your balance every 6 months and at normal (weekly) use, every 12 months.

The advantages of using on-site calibration:

- + **Calibration on-site** at your premises in the field of use
- + **Minimisation of measurement uncertainty** and guarantee of process accuracy strictly according to guideline EURAMET cg-18
- + **No risk of damage** during transportation
- + **Low downtime**
- + **Direct and personal contact** with the service technician
- + **Cross-brand servicing**, basic inspection and adjustment by a specialist
- + You tell us **when you would like us to come**
- + **Device training** for qualified users



a) KERN on-site calibration (we visit you)

In Germany, KERN has a close-knit network of KERN DAkkS calibration laboratory employees, who can carry out on-site calibration of balances up to 50 tonnes.

This on-site testing service is metrologically recommended, as your balance is in its field of use and can be calibrated without any possible transportation problems.

Lower downtime and personal contact with our expert are the major benefits of this service.

Preparatory maintenance work by agreement. Prices for on-site calibration on request.

You tell us when you would like us to come, giving us details of the balances to be tested. Our on-site DAkkS calibration team will then get in touch with you immediately and will discuss the process with you at your premises – it's straight forward and professional.

This KERN calibration service is also independent of the brand.

Please feel free to contact us at Phone +49 7433 9933-400 or E-Mail: testservices-onsite@kern-sohn.com

The advantages of using in-house calibration:

- + **Short calibration time:** Test time in the laboratory is only four working days
- + **Competence:** Calibration laboratory, which complies with the highest standards in the area of metrology
- + **Independent management** of the recalibration calendar for your individual measuring instrument is possible
- + **Cross-brand service:** Measuring devices from any manufacturer can be calibrated independently
- + **Repair:** Any necessary repairs can be carried out immediately, if you wish



b) Calibration at the KERN factory (you send your balance to us)

Recommended for new devices and for balances which can be affordably transported, as then there is no need for us to travel to carry out the calibration on-site. Repairs can be carried out at the same time, quickly and in full.

The process would be as follows:

- Day 1: Send your balance to the KERN calibration laboratory in Balingen.
- Day 2 to 3: Evaluation and calibration of your balance by our specialists.
- Day 4: After positive validation, your balance is returned.

Please feel free to contact us at Phone +49 7433 9933-400 or E-Mail: recalibration-balances@kern-sohn.com



- 220 Accredited Calibration / Verification Service

www.kern-sohn.com · Order hotline +49 7433 9933-0

Minimum weight of sample (in use)

What is the lightest item you can weigh on your balance, while still achieving accurate and reliable weighing results? What exactly is the limit?

The KERN minimum sample weight protocol accounts for the established minimum sample weight of your balance and its location of installation and use with the relative measuring uncertainty. With various safety coefficients and required weighing accuracy (process accuracy), depending on standard or quality-related requirements on the balance being used.

The higher the selected safety coefficient, the higher the safety when using the balance in a particular process.

Typical perturbations when using the balance e.g. small fluctuations in temperature are taken into account. In easily predictable conditions in a professional environment of use, KERN recommends a safety coefficient of 3. For critical processes, a correspondingly higher factor should be selected. The minimum sample weight protocol contains a diagram as well as a table, from which you can ascertain the minimum sample weight for your balance, depending on the process.

Adjustment at the location of installation

Why?

Adjustment at the location of installation is necessary, as the measuring results of balances depend on the local gravitational force (gravitational acceleration) and therefore depend on the location of use. KERN can carry this out just before shipping at the factor, individually to suit the location of installation.

What are the advantages of carrying out adjustment at the location of installation?

- The balance gives reliable measurement results at the location of installation.
- No time-consuming on-site adjustment necessary.
- You do not need a Service Engineer or any additional weights.
- The balance is ready for immediate use.

Pricing table for adjustment at the location of installation

Weighing capacity	KERN	Price excl. of VAT ex works €
[Max] ≤ 5 kg	961-247	43,-
[Max] > 5 – 50 kg	961-248	52,-
[Max] > 50 – 350 kg	961-249	62,-
[Max] > 350 – 1500 kg	961-250	99,-
[Max] > 1500 – 2900 kg	961-251	131,-
[Max] > 2900 – 6000 kg	961-252	260,-
[Max] > 6000 – 12000 kg	961-253	300,-

For adjustment to the location of installation you need the value for gravitational acceleration at the location of installation, which KERN can calculate using the point of use. The procedure is suitable for balances with a resolution of <60,000 d. For higher resolutions we recommend a balance with an internal adjusting weight or adjustment with a calibrated adjusting weight at the location of installation.

Certificate of conformity

With a certificate of conformity you get a statement about whether the balance meets your defined requirements. In conjunction with a calibration certificate with accreditation symbol it serves as documented proof that the balance fulfils the required process demands. When doing this the process owner for the balance can select from different temperature specifications – depending on its individual requirements:

Conformity evaluation on the basis of the:	KERN		Price excl. of VAT ex works €
Usage accuracy*	relative	969-511	on request
	absolute	969-512	
Calibration results*	relative	969-513	on request
	absolute	969-514	
Measurements as manufacturer or customer specification	Foreign device	969-515	on request
	Customer specifications	969-516	
	KERN devices	969-517	

relative = % / absolute = g *as attachment to the calibration certificate with accreditation symbol (Details see www.kern-lab.com)

Example for absolute customer tolerance (absolute)
(Item no. 969-511):

No.	Tare	Load	Display	Deviation	Uncertainty	Customer tolerance	Conformity ¹⁾
1	0 g	500 g	500,00 g	0,00 g	± 0,013 g	± 0,05 g	☑
2	0 g	1000 g	1000,00 g	0,00 g	± 0,015 g	± 0,05 g	☑
3	0 g	1500 g	1500,01 g	0,01 g	± 0,017 g	± 0,05 g	☑
4	0 g	2000 g	2000,01 g	0,01 g	± 0,020 g	± 0,10 g	☑
5	0 g	3000 g	3000,02 g	0,02 g	± 0,022 g	± 0,10 g	☑

¹⁾Evaluation criteria: |[Deviation]| + [extended measuring uncertainty] ≤ [tolerance]

Documented quality of your balances in the log book

Consistently high product quality requires the use of measuring and test equipment that provides comprehensible, consistent and reproducible results. Hence, quality management systems require that measuring and test equipment produces a detailed traceable description and documentation of calibration results and conformity statements. According to the guiding principle of GMP/GLP: "Work not documented is work not done."

Equipment qualification is documentary evidence that a equipment is suitable for the intended purpose and is working faultlessly. A balance log book as well as our EQS (Equipment Qualification Software) is used to record all activities and results required for the qualification and monitoring of balances during routine operation. This includes the installation and commissioning of the balances, routine tests, maintenance as well as the recording of special events (failures, repairs, change of location).

The structure of the balance log book is based on the qualification process of the balance. The requirements for the qualification system such as DIN EN ISO 9001, DIN EN ISO/IEC 17025, GLP/GMP, VDA must be taken into account. The log book supports the user in his/her daily work with the balance and is meant to serve as necessary evidence during inspections and audits. The responsibility for maintaining the log book and its appropriate use is to be borne by the user.

Our proposal: Count on our support!

KERN offers this qualification concept throughout. Our validation services are carried out on the spot by technicians of our calibration laboratory and comprise among other things: installation, measurement test inclusive DAkks calibration certificate as well as records in your qualification log book of the EQS software (Equipment Qualification Software).

We give you advice about the options of device qualification, as required and will be happy to set up an appointment for qualification at the place of installation.

We offer individual calibration and maintenance agreements for the periodically required requalification.

Further information can be found at www.kern-lab.com



Important elements of equipment qualification:



Design qualification (DQ)

With the design qualification, which is carried out under consideration of a requirement specification/functional description, all the requirements on which you as a user depend on, are defined. The purchase decision is made on the basis of the design specifications and the available devices. Careful selection in the DQ can prevent subsequent deficiencies.



Installation qualification (IQ)

During the installation qualification based on a FMEA, we perform a documented installation, up to the qualified commissioning of your device. Points of this qualification are:

- Scope of delivery and identification
- Visual inspection of the system components
- Evaluation of the installation site
- Hardware installation and device settings
- Cleaning
- Query of work instructions during use
- Clarification of deviations
- Document review and approval

We carry out our qualifications in accordance with the GMP standard.



Function qualification (OQ)

Instruction is given to the user/s. Items of the OQ are:

- Function test of the system
- Initial adjustment on site
- Metrological verification including USP & Ph.Eur.
- Creation of test protocols
- Check of menu function and error message
- Review and approval of documents
- Evaluation of performance and determination of further test procedure



Performance qualification (PQ)

The PQ represents documented evidence that the balance or weighing system functions in the selected application as intended. This will be assured by a qualification test of the equipment under real conditions with respect to its surroundings and the problem definition (such as traceable data transmission).



Maintenance qualification (MQ)

The periodical maintenance, cleaning work and complete metrological test of the balance/weighing system is documented in the MQ by a trained authorised engineer. Maintenance is carried out with the help of a maintenance schedule. The maintenance times are determined by you. We are happy to support you with a maintenance contract for the entire organisation of your measuring system.



If you are interested in a training for equipment qualification, please feel free to contact us at **+49 7433 9933-400** or **testservices-onsite@kern-sohn.com**

KERN KERN & SOHN GmbH
 Akkreditiertes Kalibrierlabor seit 1994.
 Accredited calibration laboratory since 1994.

Ihr Partner für Kalibrierdienstleistungen, Profitemanagement und Beratung.
 Your partner for calibration services, test equipment management and support.

Mitglied im / member of the
Deutschen Kalibrierdienst **DKD** **DAKKS**

Kalibriertein
 Calibration certificate

Sample
 D-KL
 1948/01-00
 2025-01

Kalibriertein
 Calibration mark

Gegenstand
 Object

Gewichtssatz: 1 mg - 1 kg
 Klasse E2
 Teil des Gewichtssatzes 1 mg - 1 kg
 Class E2
 KERN & Sohn GmbH
 Ziegeler 1
 D-72336 Balingen
 Germany

Hersteller
 Manufacturer

Typ
 Type

Fabrikations-Nr.
 Serial number

Auftraggeber
 Customer

Auftragsnummer
 Order No.

Die Kalibrierung wurde bei folgenden Umgebungsbedingungen ausgeführt
 The calibration was carried out under the following ambient conditions:

	von	bis	Unsicherheit
Temperatur (°C)	22,9	23,1	0,1
rel. Luftfeuchte (%)	48,8	50,4	2,0
Luftdruck (hPa)	992,9	999,5	0,3

Mögliche Eigenschaften
 Possible properties

Referenzgewichte
 Reference weights

Material / zugewiesene Dichte
 Material / assigned density

Nennwert nominal value	Dichte density	Unsicherheit uncertainty	Material material	Form shape
1 mg - 500 mg	7800 kg/m³	± 0,001 mg	Edelstahl Stainless steel	Quadrat Square
1 g - 1 kg	8000 kg/m³	± 0,001 mg	Edelstahl Stainless steel	Kreiszylinder Cylindrical

Messergebnisse
 Measurement results

Nennwert nominal value	Kennzeichnung marking	Konventioneller Wägewert conventional mass	Unsicherheit J=2 uncertainty	Fehlergrenze max. perm. disp.	Klasse*
1 mg		1 mg ± 0,0013 mg	0,0013 mg	± 0,0060 mg	E2 ✓
2 mg	*	2 mg ± 0,0025 mg	0,0025 mg	± 0,0060 mg	E2 ✓
5 mg	*	5 mg ± 0,0050 mg	0,0050 mg	± 0,0060 mg	E2 ✓
10 mg	*	10 mg ± 0,0070 mg	0,0070 mg	± 0,0060 mg	E2 ✓
20 mg	*	20 mg ± 0,0100 mg	0,0100 mg	± 0,0060 mg	E2 ✓
50 mg	*	50 mg ± 0,0150 mg	0,0150 mg	± 0,0060 mg	E2 ✓
100 mg	*	100 mg ± 0,0200 mg	0,0200 mg	± 0,0060 mg	E2 ✓
200 mg	*	200 mg ± 0,0300 mg	0,0300 mg	± 0,0060 mg	E2 ✓
500 mg	*	500 mg ± 0,0500 mg	0,0500 mg	± 0,0060 mg	E2 ✓
1 g		1 g ± 0,0012 mg	0,0012 mg	± 0,0050 mg	E2 ✓
2 g	*	2 g ± 0,0025 mg	0,0025 mg	± 0,0050 mg	E2 ✓
5 g	*	5 g ± 0,0050 mg	0,0050 mg	± 0,0050 mg	E2 ✓
10 g	*	10 g ± 0,0070 mg	0,0070 mg	± 0,0050 mg	E2 ✓
20 g	*	20 g ± 0,0100 mg	0,0100 mg	± 0,0050 mg	E2 ✓
50 g	*	50 g ± 0,0150 mg	0,0150 mg	± 0,0050 mg	E2 ✓
100 g	*	100 g ± 0,0200 mg	0,0200 mg	± 0,0050 mg	E2 ✓
200 g	*	200 g ± 0,0300 mg	0,0300 mg	± 0,0050 mg	E2 ✓
500 g	*	500 g ± 0,0500 mg	0,0500 mg	± 0,0050 mg	E2 ✓
1 kg		1 kg ± 0,10 mg	0,10 mg	± 0,80 mg	E2 ✓

* Bewertung der Klasse bzw. der Fehlergrenze (wenn keine Klassenangabe vorhanden ist) bezieht sich nur auf den konventionellen Wägewert.
 (The assessment of the class / the max. perm. disp. / the error assessment is given only when the conventional mass is provided.)

Fehler: Keine Dokumentvariable verfügbar. | Fehler: Keine Dokumentvariable verfügbar. | Fehler: Keine Dokumentvariable verfügbar.
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Calibration certificate with accreditation symbol for test weights (extract).

For more details on our calibration service and other useful information, please see the internet at www.kern-lab.com

- 1 Official document
- 2 Item to be calibrated
- 3 Traceability, see the *Glossary*
- 4 Identification/Applicant
- 5 Environmental conditions
- 6 Metrological component
- 7 Conventional mass
- 8 Uncertainty of measurement, see the *Glossary*

Traceable KERN test weights – Calibration of test weights

Calibrated measuring equipment requires calibrated checking equipment. For balances, these are calibrated test weights, also called “standard weights”.

KERN will calibrate your test weights

- In all classes with permissible error limits E1–M3 according to OIML R111:2004 in sizes 1 mg to 2500 kg
- With free nominal value
- Newton (N)
- Independent of design (special designs)

The advantages of using the KERN in-house calibration

You send your test weights to us.

- Excellent price performance ratio
- The quickest processing time
 - Standard service: 4 working days
 - Express service: 48 hrs (new weights)
- The most modern calibration methods with robot controlled comparators allow the most accurate calibration results and fastest throughput time
- KERN calibration certificates with accreditation symbol are internationally recognised
- A calibration service which is independent of the brand
- KERN also reconditions existing customer weights (e.g. cleaning or readjustment)
- On request, we can also provide a pick-up and collection service with our parcel service

The advantages of using the KERN on-site calibration

We visit you.

We would be pleased to visit you within Germany and carry out the calibration of your reference standards to OIML classes M1–M3, 10 kg–2500 kg with permissible error limits, using our mobile MACOS system. Minimized downtime of your checking equipment and direct contact with our expert are the major benefits of this service. Price on request.

Recalibration

- The recalibration schedule depends on the frequency of use, the conditions of use and the safety requirements
- In terms of standardisation, no particular recalibration interval is specified
- We would recommend that you recalibrate your test weights every six months if they are used intensively, and every 12 months with normal use
- We would be pleased to monitor your recalibration schedule

Recalibration Price of Test Weights (Accredited Calibration)

Class acc.	➔	E1 ²⁾ with volume determination	E1 ¹⁾ without volume determination	E2 ¹⁾	F1/F2 ¹⁾ * F2 only	M1/M2/M3 ¹⁾				
Nominal value	↓	KERN	Price € excl. of VAT ex works	KERN	Price € excl. of VAT ex works	KERN	Price € excl. of VAT ex works	KERN	Price € excl. of VAT ex works	
1 mg	-	-	962-251R	82,-	962-351R	36,-	962-451R	23,-	962-651R	19,-
2 mg	-	-	962-252R	82,-	962-352R	36,-	962-452R	23,-	962-652R	19,-
5 mg	-	-	962-253R	82,-	962-353R	36,-	962-453R	23,-	962-653R	19,-
10 mg	-	-	962-254R	82,-	962-354R	36,-	962-454R	23,-	962-654R	19,-
20 mg	-	-	962-255R	82,-	962-355R	36,-	962-455R	23,-	962-655R	19,-
50 mg	-	-	962-256R	82,-	962-356R	36,-	962-456R	23,-	962-656R	19,-
100 mg	-	-	962-257R	82,-	962-357R	36,-	962-457R	23,-	962-657R	19,-
200 mg	-	-	962-258R	82,-	962-358R	36,-	962-458R	23,-	962-658R	19,-
500 mg	-	-	962-259R	82,-	962-359R	36,-	962-459R	23,-	962-659R	19,-
1 g	963-231	250,-	962-231R	82,-	962-331R	36,-	962-431R	23,-	962-631R	19,-
2 g	963-232	250,-	962-232R	82,-	962-332R	36,-	962-432R	23,-	962-632R	19,-
5 g	963-233	250,-	962-233R	82,-	962-333R	36,-	962-433R	23,-	962-633R	19,-
10 g	963-234	250,-	962-234R	82,-	962-334R	36,-	962-434R	23,-	962-634R	19,-
20 g	963-235	250,-	962-235R	82,-	962-335R	36,-	962-435R	23,-	962-635R	19,-
50 g	963-236	250,-	962-236R	82,-	962-336R	36,-	962-436R	23,-	962-636R	19,-
100 g	963-237	250,-	962-237R	82,-	962-337R	46,-	962-437R	26,-	962-637R	21,-
200 g	963-238	250,-	962-238R	82,-	962-338R	46,-	962-438R	26,-	962-638R	21,-
500 g	963-239	250,-	962-239R	82,-	962-339R	46,-	962-439R	26,-	962-639R	21,-
1 kg	963-241	250,-	962-241R	82,-	962-341R	46,-	962-441R	26,-	962-641R	21,-
2 kg	963-242	570,-	962-242R	101,-	962-342R	55,-	962-442R	33,-	962-642R	22,-
5 kg	963-243	570,-	962-243R	101,-	962-343R	55,-	962-443R	33,-	962-643R	22,-
10 kg	963-244	570,-	962-244R	101,-	962-344R	55,-	962-444R	33,-	962-644R	22,-
20 kg	963-245	1320,-	962-245R	760,-	962-345R	72,-	962-445R	37,-	962-645R	29,-
50 kg	963-246	1540,-	962-246R	840,-	962-346R	84,-	962-446R	51,-	962-646R	31,-
100 kg	-	-	-	-	-	-	962-591R*	152,-	962-691R	82,-
200 kg	-	-	-	-	-	-	962-592R*	152,-	962-692R	82,-
500 kg	-	-	-	-	-	-	962-593R*	152,-	962-693R	82,-
1000 kg	-	-	-	-	-	-	-	-	962-694R	179,-
2000 kg	-	-	-	-	-	-	-	-	962-695R	330,-
1 mg-500 mg	-	-	962-250R	530,-	962-350R	250,-	962-450R	131,-	962-650R	82,-
1 mg-50 g	963-201	1440,-	962-201R	870,-	962-301R	410,-	962-401R	215,-	962-601R	140,-
1 mg-100 g	963-202	1570,-	962-202R	900,-	962-302R	450,-	962-402R	235,-	962-602R	146,-
1 mg-200 g	963-203	1800,-	962-203R	990,-	962-303R	510,-	962-403R	260,-	962-603R	164,-
1 mg-500 g	963-204	1920,-	962-204R	1030,-	962-304R	550,-	962-404R	270,-	962-604R	172,-
1 mg-1 kg	963-205	2040,-	962-205R	1110,-	962-305R	590,-	962-405R	285,-	962-605R	180,-
1 mg-2 kg	963-206	2660,-	962-206R	1180,-	962-306R	650,-	962-406R	330,-	962-606R	198,-
1 mg-5 kg	963-207	2980,-	962-207R	1230,-	962-307R	690,-	962-407R	345,-	962-607R	210,-
1 mg-10 kg	963-208	3390,-	962-208R	1270,-	962-308R	740,-	962-408R	375,-	962-608R	215,-
1 g-50 g	963-215	1040,-	962-215R	385,-	962-315R	169,-	962-415R	88,-	962-615R	54,-
1 g-100 g	963-216	1130,-	962-216R	420,-	962-316R	200,-	962-416R	101,-	962-616R	65,-
1 g-200 g	963-217	1380,-	962-217R	500,-	962-317R	265,-	962-417R	128,-	962-617R	80,-
1 g-500 g	963-218	1500,-	962-218R	550,-	962-318R	305,-	962-418R	143,-	962-618R	90,-
1 g-1 kg	963-219	1650,-	962-219R	590,-	962-319R	340,-	962-419R	157,-	962-619R	96,-
1 g-2 kg	963-220	2310,-	962-220R	680,-	962-320R	420,-	962-420R	197,-	962-620R	117,-
1 g-5 kg	963-221	2700,-	962-221R	700,-	962-321R	470,-	962-421R	215,-	962-621R	126,-
1 g-10 kg	963-222	3150,-	962-222R	760,-	962-322R	510,-	962-422R	240,-	962-622R	136,-

¹⁾ Processing time 4 working days, ²⁾ Processing time 15 working days, ¹⁾ Preparation of reverification of balances, 969-006R, € 26,-

Additional costs for preparation, overhaul and adjustment before the calibration	KERN	Price excl. of VAT ex works €
Preparation of weights (e.g. cleaning, etc.)		
Single weight	969-001R	5,-
Weight set	969-002R	21,-
Subsequent services are carried out after confirmation		
Continued overhaul of weights (e.g. wet-cleaning, markings, repair, special packaging, adjustment E1 (DAkkS only), E2 ...)	969-005R	T & M basis
Adjustment, per weight only available for weights with adjustment chamber (F1- M3)	969-010R	15,-
Second calibration after adjustment or substitution, per weight		
Class E1	969-210R	63,-
Class E1 incl. volume determination	969-211R	230,-
Class E2	969-310R	30,-
Class F1/F2	969-410R	20,-
Class M1- M3	969-610R	16,-
Testing of magnetic properties according to OIML R111:2004, per weight	961-115R	16,-
Calibration of NON-OIML test weights, additional price per weight	-	8,-

KERN Standard Service Time* ¹	
Standard service Class E2 – M3	4 working days
Standard service Class E1, 1 mg – 500 mg, and recalibration 1 g – 10 kg with a known volume	10 working days
Class E1, ≥ 1 g, incl. volume determination (new weights)	15 working days

¹⁾ The delivery time for recalibrations can vary depending on the order situation as well as in case of queries, bottlenecks, etc.



Express service in 48 hours
except for class E1

- Urgent order is received at KERN by 12:00 noon at the latest
- Ready for shipping at KERN within two working days,
at 12:00 noon
- Return by standard parcel service or express shipping
(Costs and processing time on request)
- Additional cost for Express Service, for each test weight,
KERN 962-115 € 21,-
- For Express shipping

Verification Prices for Test Weights and (Crane) Scales

Class acc. OIML R 111:2004	➔ E2 ¹⁾ with verification certificate	F1 ¹⁾ with verification certificate	M1 ¹⁾ with verification certificate			
Nominal value ↓	KERN	Price € excl. of VAT ex works	KERN	Price € excl. of VAT ex works	KERN	Price € excl. of VAT ex works
1 mg	952-351	57,-	952-451	48,-	952-651	34,-
2 mg	952-352	57,-	952-452	48,-	952-652	34,-
5 mg	952-353	57,-	952-453	48,-	952-653	34,-
10 mg	952-354	57,-	952-454	48,-	952-654	34,-
20 mg	952-355	57,-	952-455	48,-	952-655	34,-
50 mg	952-356	57,-	952-456	48,-	952-656	34,-
100 mg	952-357	57,-	952-457	48,-	952-657	34,-
200 mg	952-358	57,-	952-458	48,-	952-658	34,-
500 mg	952-359	57,-	952-459	48,-	952-659	34,-
1 g	952-331	57,-	952-431	48,-	952-631	34,-
2 g	952-332	57,-	952-432	48,-	952-632	34,-
5 g	952-333	57,-	952-433	48,-	952-633	34,-
10 g	952-334	57,-	952-434	48,-	952-634	34,-
20 g	952-335	57,-	952-435	48,-	952-635	34,-
50 g	952-336	57,-	952-436	48,-	952-636	34,-
100 g	952-337	63,-	952-437	48,-	952-637	34,-
200 g	952-338	63,-	952-438	50,-	952-638	34,-
500 g	952-339	63,-	952-439	50,-	952-639	34,-
1 kg	952-341	63,-	952-441	50,-	952-641	34,-
2 kg	952-342	71,-	952-442	57,-	952-642	36,-
5 kg	952-343	71,-	952-443	57,-	952-643	36,-
10 kg	952-344	71,-	952-444	57,-	952-644	44,-
20 kg	952-345	83,-	952-445	59,-	952-645	50,-
50 kg	-	-	952-446	70,-	952-646	52,-
1 mg-500 mg	952-350	285,-	952-450	148,-	952-650	92,-
1 mg-50 g	952-301	460,-	952-401	240,-	952-601	154,-
1 mg-100 g	952-302	500,-	952-402	260,-	952-602	164,-
1 mg-200 g	952-303	570,-	952-403	295,-	952-603	183,-
1 mg-500 g	952-304	610,-	952-404	305,-	952-604	192,-
1 mg-1 kg	952-305	630,-	952-405	320,-	952-605	200,-
1 mg-2 kg	952-306	720,-	952-406	360,-	952-606	220,-
1 mg-5 kg	952-307	790,-	952-407	395,-	952-607	235,-
1 mg-10 kg	952-308	830,-	952-408	420,-	952-608	240,-
1 g-50 g	952-315	185,-	952-415	107,-	952-615	70,-
1 g-100 g	952-316	220,-	952-416	113,-	952-616	75,-
1 g-200 g	952-317	290,-	952-417	145,-	952-617	89,-
1 g-500 g	952-318	330,-	952-418	160,-	952-618	99,-
1 g-1 kg	952-319	355,-	952-419	175,-	952-619	109,-
1 g-2 kg	952-320	445,-	952-420	220,-	952-620	130,-
1 g-5 kg	952-321	495,-	952-421	240,-	952-621	142,-
1 g-10 kg	952-322	550,-	952-422	270,-	952-622	152,-

KERN verification delivery time

Standard verification service Class E2 – M1	6 working days
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Additional costs for preparation, overhaul and adjustment before the verification	KERN	Price excl. of VAT ex works €
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Preparation of weights (e.g. cleaning, etc.)

Single weight	969-008R	5,-
Weight set	969-009R	21,-

Subsequent services are carried out after confirmation

Continued overhaul of weights (e.g. wet-cleaning, markings, repair, special packaging, adjustment E2 ...)	969-005R	T & M basis
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Adjustment, per weight only available for weights with adjustment chamber (F1/F2 – M1)	969-010R	15,-
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Verification after adjustment or substitution, per weight

Class E2	969-310R	30,-
Class F1/F2	969-410R	20,-
Class M1	969-610R	16,-

Verification prices for balances

Accuracy class I (precision balances) ¹⁾	Reverification ²⁾	Price excl. of VAT ex works €
[Max] ≤ 5 kg ¹⁾	950-101R	245,-
[Max] > 5 kg ¹⁾	950-102R	320,-
Accuracy class II (precision balances) ¹⁾		
[Max] ≤ 5 kg ¹⁾	950-116R	126,-
[Max] > 5 kg – 50 kg ¹⁾	950-117R	153,-
[Max] > 50 kg – 350 kg ¹⁾	950-118R	235,-
Accuracy class III-IV ¹⁾		
Bench scales and industrial scales (excl. crane scales)		
[Max] ≤ 5 kg ¹⁾	950-127R	120,-
[Max] > 5 kg – 50 kg ¹⁾	950-128R	120,-
[Max] > 50 kg – 350 kg ¹⁾	950-129R	193,-
[Max] > 350 kg – 1500 kg ¹⁾	950-130R	285,-
[Max] > 1500 kg – 2900 kg ¹⁾	950-131R	395,-
[Max] > 2900 kg – 6000 kg ¹⁾	950-132R	610,-
Crane scales		
[Max] > 50 kg – 350 kg ¹⁾	950-129HR	210,-
[Max] > 350 kg – 1500 kg ¹⁾	950-130HR	345,-
[Max] > 1500 kg – 2900 kg ¹⁾	950-131HR	500,-
[Max] > 2900 kg – 6000 kg ¹⁾	950-132HR	760,-
[Max] > 6000 kg – 12000 kg ¹⁾	950-133HR	1220,-

¹⁾ Preparation of reverification of balances, 969-006R, € 26,- ²⁾ Verification ("reverification") only in Germany

Accredited calibration with calibration certificate for force gauges

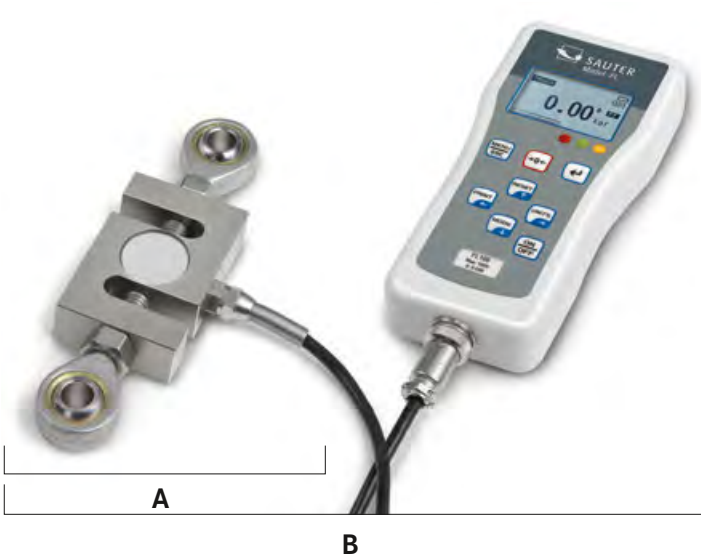
The KERN calibration laboratory is at your side when you need an accredited calibration. From the transducer to the full measuring chain, we are happy to take care of traceable calibration of your test equipment for you.

Our accreditation includes the calibration of tensile and pressure force up to 5 kN according to the standards DIN EN ISO 376 and DKD-R 3-3, each with the Newton (N) display unit for a complete measuring chain (situation A) or voltage ratio/transmission coefficient (mV/V, situation B).

Below you will find a comparison of which standard meets which criteria:

Comparison of DIN EN ISO 376 and DKD-R 3-3		
	ISO 376	DKD-R 3-3
Standardization	ISO standard (internationally standardized)	Standard of the DKD (Germany)
Measuring equipment	Force transducers and complete measuring chains	Force transducers and complete measuring chains
Area of application	Specifically force gauges for the testing of testing equipment	General force gauges
Number of power stages	8	5
Classification/Assessment	Classification in classes 00; 0,5; 1 and 2	None in standard
Test sequences	Fixed procedure	Sequences A, B, C, D possible Standard is sequence A B, C and D are reduced sequences, relevant previous knowledge is necessary
Summary	Higher-quality calibration, as 8 force levels are calibrated	High-quality calibration, reduced sequences with less effort possible

We can offer you a calibration solution for the following situations:



Situation A:
Separate force transducer,
display unit mV/V

Situation B:
Complete force gauge (N),
consisting of transducer, amplifier
and display, display unit N

► See also tables, right side

You can find further information on this topic at: www.kern-lab.com



Calibration certificate with accreditation symbol for force-measuring devices (extract).

Prices for accredited calibration of force gauges and force transducers

Situation A: Force transducer (voltage ratio, in mV/V)* 1,2

ISO 376 (8 stages)			DKD-R 3-3 (5 stages, sequence A)		
KERN	Measuring range	Price € ex works excl. of VAT	KERN	Measuring range	Price € ex works excl. of VAT
Tensile force:					
963-161IV (R)	≤ 500 N	250,-	963-161V (R)	≤ 500 N	235,-
963-162IV (R)	≤ 2 kN	300,-	963-162V (R)	≤ 2 kN	280,-
963-163IV (R)	≤ 5 kN	390,-	963-163V (R)	≤ 5 kN	360,-
Compression force:					
963-261IV (R)	≤ 500 N	250,-	963-261V (R)	≤ 500 N	235,-
963-262IV (R)	≤ 2 kN	300,-	963-262V (R)	≤ 2 kN	280,-
963-263IV (R)	≤ 5 kN	390,-	963-263V (R)	≤ 5 kN	360,-
Tensile and Compression force:					
963-361IV (R)	≤ 500 N	420,-	963-361V (R)	≤ 500 N	390,-
963-362IV (R)	≤ 2 kN	500,-	963-362V (R)	≤ 2 kN	465,-
963-363IV (R)	≤ 5 kN	670,-	963-363V (R)	≤ 5 kN	610,-

Situation B: Complete force gauge (in N)* 2

ISO 376 (8 stages)			DKD-R 3-3 (5 stages, sequence A)		
KERN	Measuring range	Price € ex works excl. of VAT	KERN	Measuring range	Price € ex works excl. of VAT
Tensile force:					
963-161I (R)	≤ 500 N	205,-	963-161 (R)	≤ 500 N	187,-
963-162I (R)	≤ 2 kN	250,-	963-162 (R)	≤ 2 kN	225,-
963-163I (R)	≤ 5 kN	345,-	963-163 (R)	≤ 5 kN	315,-
Compression force:					
963-261I (R)	≤ 500 N	205,-	963-261 (R)	≤ 500 N	187,-
963-262I (R)	≤ 2 kN	250,-	963-262 (R)	≤ 2 kN	225,-
963-263I (R)	≤ 5 kN	345,-	963-263 (R)	≤ 5 kN	315,-
Tensile and Compression force:					
963-361I (R)	≤ 500 N	375,-	963-361 (R)	≤ 500 N	340,-
963-362I (R)	≤ 2 kN	460,-	963-362 (R)	≤ 2 kN	420,-
963-363I (R)	≤ 5 kN	620,-	963-363 (R)	≤ 5 kN	560,-

Factory calibration for force

This is not an accredited calibration (no proof of metrological traceability).

Situation A: Force transducer (voltage ratio, in mV/V)* 1,2

Situation B: Complete force gauge (in N)* 2

KERN	Measuring range	Price € ex works excl. of VAT	KERN	Measuring range	Price € ex works excl. of VAT
Tensile force:					
961-161V (R)	≤ 500 N	235,-	961-161 (R)	≤ 500 N	187,-
961-162V (R)	≤ 2 kN	280,-	961-162 (R)	≤ 2 kN	225,-
961-163V (R)	≤ 5 kN	360,-	961-163 (R)	≤ 5 kN	315,-
961-164V (R)	≤ 20 kN	460,-	961-164 (R)	≤ 20 kN	410,-
961-165V (R)	≤ 50 kN	460,-	961-165 (R)	≤ 50 kN	410,-
961-166V (R)	≤ 250 kN	495,-	961-166 (R)	≤ 250 kN	455,-
Compression force:					
961-261V (R)	≤ 500 N	235,-	961-261 (R)	≤ 500 N	187,-
961-262V (R)	≤ 2 kN	280,-	961-262 (R)	≤ 2 kN	225,-
961-263V (R)	≤ 5 kN	360,-	961-263 (R)	≤ 5 kN	315,-
961-264V (R)	≤ 20 kN	460,-	961-264 (R)	≤ 20 kN	410,-
961-265V (R)	≤ 50 kN	460,-	961-265 (R)	≤ 50 kN	410,-
961-266V (R)	≤ 250 kN	495,-	961-266 (R)	≤ 250 kN	455,-
Tensile and Compression force:					
961-361V (R)	≤ 500 N	390,-	961-361 (R)	≤ 500 N	340,-
961-362V (R)	≤ 2 kN	465,-	961-362 (R)	≤ 2 kN	420,-
961-363V (R)	≤ 5 kN	610,-	961-363 (R)	≤ 5 kN	560,-
961-364V (R)	≤ 20 kN	660,-	961-364 (R)	≤ 20 kN	610,-
961-365V (R)	≤ 50 kN	660,-	961-365 (R)	≤ 50 kN	610,-
961-366V (R)	≤ 250 kN	720,-	961-366 (R)	≤ 250 kN	670,-

(R): Recalibration

For each force gauge without interface or from other manufacturers we charge a surcharge of € 10,- for the additional effort.

*1 Compatibility with our amplifiers required

*2 Installation in our measuring equipment required

Factory calibration certificates

As calibration certificates with accreditation symbol cannot be offered for all measuring devices or measurement sizes, or where it is not customary, we then offer factory calibration certificates. This is not an accredited calibration (no proof of metrological traceability). These calibration certificates meet international standards and are particularly suitable as proof of exacting calibration in the monitoring of your checking equipment, for example:

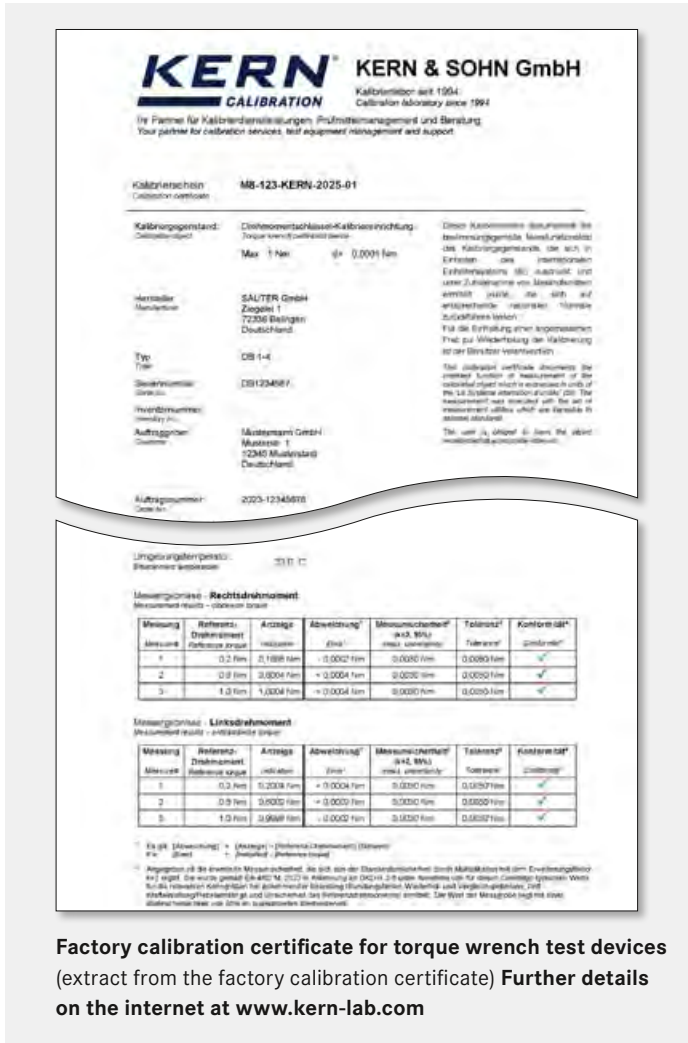
- Mechanical balances (spring balances, etc.)
- Force-measuring devices up to 250 kN
- Measuring devices for layer thickness 0 µm – 2000 µm
- Hardness testing devices in accordance with Leeb tests
- Ultrasonic material thickness testing device 25 mm – 300 mm

We carry out calibrations independent of brand. In order to avoid any unnecessary delays when processing your order, please send us the technical documents and necessary accessories with the checking device. Calibration time 4 working days.

KERN	Measuring device	Measuring range	Price excl. of VAT ex works €
Factory calibration			
961-110	Coating thickness	≤ 2000 µm F or N	167,-
961-112	Coating thickness	≤ 2000 µm FN	235,-
961-113	Wall thickness (ultra sound)	≤ 300 mm (in stainless steel)	167,-
961-114	Wall thickness (Test blocks)	≤ 300 mm	208,-
961-170	Hardness comparison plate (Shore)	For sets up to 7 plates	132,-
961-131	Hardness tester (Leeb)	400 – 800 HLD	167,-
961-132	Hardness comparison plate (Leeb)	Hardness comparison plate (for Leeb durometer)	167,-
961-270	Hardness (UCI)	200 – 800 HV	360,-
961-150	Length	≤ 300 mm	167,-
961-190	Light	≤ 200000 lx	325,-
961-100	Mechanical balances / spring balances	≤ 5 kg	99,-
961-101	Mechanical balances / spring balances	> 5 – 50 kg	123,-
961-102	Mechanical balances / spring balances	> 50 – 350 kg	146,-
961-103	Mechanical balances / spring balances	> 350 – 1500 kg	225,-
961-102K	Digital dynamometer KERN MAP	≤ 130 kg	167,-
961-120 (R)	Torque wrench test devices	1 Nm – 200 Nm	235,-
964-305	Temperature calibration for moisture analyzer*		174,-
961-290	Refractometers		135,-
Additional services			
962-116	Express service with 48 hour delivery		52,- / instrument

(R): Recalibration
For each force gauge without interface or from other manufacturers we charge a surcharge of € 10,- for the additional effort.

*For an overview of calibratable instruments and test services for further measuring sizes see www.kern-lab.com



A

Accuracy classes for test weightsE, F, M ▶ **Error limit classes****Adjusting of measurement equipment**

Precise setting of a measurement value via a professional intervention in the measurement system.

Adjusting the weighing range of a balance

Either with the external test weight via the **adjusting program CAL**, or with the **internal automatic adjustment** resp. **adjusting switch**. It is necessary with variations in temperature, a change of environmental conditions, change of location, etc. Recommended as a daily check routine.

Alibi memory

For weighings where verification is mandatory, and which are to be analysed and processed by a PC (e.g. printing out a packing list using a PC instead of a printer connected directly to the balance) electronic archiving is required by the metrological authorities by a verifiable data memory which cannot be manipulated. Alibi memories from KERN fulfil this requirement. They are for paperless archiving of weighing results. For KERN products the alibi memory is fitted inside the balance, right between where the weight is determined and the output to the PC.

All data transferred to the PC is stored with date, time and all important weights for at least three months. These stored data strings can be displayed on the balance at any time. The data in the alibi memory can be deleted, but not changed.

Application accuracy

Allowance for measuring uncertainty during practical use of a balance. Is given in the appendix to the DKD calibration certificate.

ATEX

Derived from **AT**mosphère **EX**plosibles. (explosive atmosphere). A synonym for EU guidelines, which controls the quality and use of equipment in hazardous industrial environments, where there is explosion danger, e.g. by handling of flammable substances, which are present in high concentrations in the form of gas, mist, vapour or dust. Therefore see also directives 2014/34/EU as well as 1999/92/EU.

B

Balances which are verified/ not approved for verification

Metrologically almost identical. For verified balances certain details are regulated by law, e.g. software changes and additional markings.

C

CAL

Adjusting the balance is triggered with an external test weight by using the CAL key on the key pad or on the touch display of the display device or the CAL menu option. This will guarantee the consistent high accuracy of the balance.

Calibration of measurement equipment

Determination of the precision of a measurement value without intervention in the measurement system. Example: to check a balance you load a ▶ **test weight** upon it. The term “Calibrating” was formerly also used for ▶ **Adjusting**.

Calibration Certificate DKD/DAkkS

See product group 18 “Calibration service”

**Calibration or verification**

DAkkS-Calibration is possible for every balance in perfect condition. DAkkS calibration (DKD) is a private service monitored by the state for ensuring high quality requirements according to ISO 9000ff and others, e.g. in production or research. **Verifying (conformity assessment)** is only possible for type-approved balances marked with the green **M** ▶ **Verification**

Commercial error limit

Permitted tolerance (plus and minus) of measuring devices where verification is mandatory when used within their verification validity period. This tolerance is double the permissible error limit, in so far as this is not specified otherwise in the Weights and Measures Act).

Conformity assessment

Procedure for confirming warranted characteristics in accordance with recognised rules. For balances this relates to verification.

Conformity declaration from the manufacturer

The manufacturer declares that the product fulfils the applicable EU directives. With electronic balances this is always in conjunction with the CE mark.

Control of measuring equipment in the QM system in conjunction with quality standards

An organisation certified to a quality standard such as DIN EN ISO 9001 ff. e.g. a production plant is obliged to adhere to a defined quality standard within the framework of its quality management system. To do this, it is imperative to have a measurement equipment which is working accurately. Chapter 7.1.5 “Resources for monitoring and measuring” of DIN EN ISO 9001:2015-11 states that measuring equipment must be calibrated at defined intervals and before use. The measurement devices and measurement standards needed to do this must:

- be traced back to international or national standards.

(▶ **Traceability to the National Standard**)

- their uncertainty of measurement must be known
- they must be marked with a clear identification
- the test must be documented

The ▶ **DAkkS calibration (DKD)** fulfils all these requirements.

Conventional mass of weights

The problem is the air movement, which makes the weight appear lighter. In order to avoid this “distortion” in daily use, all weights are adjusted to the unit specifications given in R111, e.g. it is accepted that: material density of the weights is 8000 kg/m³, air density is 1.2 kg/m³ and measuring temperature is 20° C.

Counting resolution

The counting resolution is calculated in points from the ratio of the weighing range [Max] divided by the smallest part weight. It is a statement of counting accuracy.

D

DAkkS =**German accreditation authority**

▶ **Calibration Certificate DKD/DAkkS**

See product group 18 “Calibration service”

**Data interface**

To connect the balance to a printer, PC, network or a second balance. Typical interfaces are, for example, RS-232, RS-485, USB, Bluetooth, LAN, Digital I/O, DUAL, LAN etc. The interface parameters can be set using the balance. The interfaces available are stated in the model description.

Density determination

One of the main areas of application for laboratory balances is determining densities, e.g. determining the specific weight of liquids and solids. To do this you will need a highly accurate precision or analytical balance and a density set. It is particularly convenient if the balance can calculate and display the density right away. It has become apparent that by means of weighting when in the process of determining the density of liquids and solids according to the buoyancy method particularly accurate results can be obtained (Archimedes' principle).

a) Density determination of liquids: By means of measuring the buoyancy with a glass plummet with known volume immersed in the liquid to be measured

b) Density determination of solid bodies:

$$\rho = \frac{A}{A-B} \cdot \rho_0$$

ρ = Density of sample

A = Weight of sample in air

B = Weight of sample in auxiliary liquid

ρ_0 = Density of the auxiliary liquid

Applications:

- Pre-packaged goods control, whenever a product is sold according to its volume [cm³]. This volume is calculated with weight [g] : density [g/cm³].
- Materials analysis

DMS = Strain gauge

An electrical resistor strip that is glued to an elastic deforming body made of aluminium. As the strain gauge is mechanically deformed its resistance value changes, allowing the measured value to be calculated.

**Draught shield**

Required for balances with ► **Readout**
 $d \leq 1 \text{ mg}$, to avoid disturbing air movements.

Dual-range balance

As the load increases, the balance switches automatically to the next largest range, for both, weighing range [Max] as well as readout [d].

E**Error limit classes for test weights according to EU directive OIML R111**

For further details, see product group 17
 "Test weights"

F**FACTORY**

These options can only be carried out at KERN factory.

FORCE = Electromagnetic force compensation

A counterforce is created by means of a coil in a permanent magnet. This counterforce is the same as the load of the weight being measured on the scale and therefore equalising. The measured value is calculated via the change in the coil current.

G**GLP = Good Laboratory Practice**

► **ISO/GLP**

Gravitational acceleration

► **Gravitational force**

Gravitational force

very important influence for precise electronic balances. Due to the varying influence balances have to be ► **adjusted at the location of use.**

H**HACCP = Hazard Analysis and Critical Control Points (HACCP)**

The HACCP concept is a preventative system, which is designed to guarantee the safety of foodstuffs. EC regulation 852/2004 mandates the use of the HACCP concept for all companies which are involved in production, processing and sales of foodstuffs.

I**ISO 9000ff/DIN EN ISO 9000ff**

Quality Management System in the form of a DIN Norm for quality assurance in a factory.

ISO calibration/ISO certificate = factory calibration certificate

Testing measurement devices for accuracy in accordance with a procedure which is recognised, but not accredited.

**ISO/GLP record keeping**

Quality Assurance Systems demands record keeping of weighing results and correct adjusting of the balance, giving details of date, time and balance identification. The easiest way to obtain this documentation is by means of a connected printer.

J**Junction Box**

For connection and simple corner adjustment of several load cells.

K**KCP**

KCP is an universal communication protocol between laboratory balances, industrial scales or other measuring instruments and digital devices, such as a computer, server or process management system. Due to the universal protocol structure, one measuring instrument can be replaced by another without adapting the communication interface.

L**Linearity/Precision**

Greatest deviation of the weight displayed of a balance with regard to the value of the respective test weight in terms of plus and minus across the whole weighing range.

M**Minimum load [Min]**

Lower limit of the verifiable weighing range. Is marked on the verification mark. The function of the balance is also given below the minimum load.

Minimum sample weight

Indicates the smallest weight which can be determined, depending on the process accuracy required.

Multi-division balance/ Multi-range balance

On multi-division balances, the weighing range is subdivided several times, each with a different readability. The readability [d] changes automatically with increasing and decreasing load. Multi-range balances have several weighing ranges with different maximum loads and different numerical increments. Switching takes effect automatically when the load increases; switching back to the lower weighing range only takes effect when the scale has been completely unloaded.

N**Newton**

Newton (N) is the unit for physical force values. A Newton is the force required to accelerate a 1 kg mass at rest to a speed of 1 m/s within one second.

Notified body

Neutral and independent, predominantly government bodies, which are formally appointed by the EC. They are engaged in the field of verification for conformity evaluations (initial verification) and type-approval test within the scope of type approvals.

O**Optimisation of reference weight (when piece counting)**

See product group 9
 "Counting balances/Counting systems"

P**Percentage determination**

Example: Reference weight prior to drying:
 50 g = balance display 100 %. After drying
 40 g = balance display 80 % absolute (dry mass) or 20 % relative (humidity).

**Permissible ambient temperature**

Measuring errors are possible if you use the balances outside the permitted specified ambient temperature range. With verified balances this is stated on the identification plate.

PLU (Price Look Up)

This refers to a data memory in price-computing retail scales for the base price of sales items.

Pre-packaging legislation (FPVO)

Ensures that pre-packed goods are filled correctly, for example, in food industry. The Weights and Measures Act governs the permissible weight and volume tolerances.

PRE-TARE

Entering and saving a tare weight (e.g. container weight) through weighing or manual entry using the balance keypad before the actual weighing process. When you subsequently place the tare container on the balance, the balance will show zero immediately – saves time. Particularly useful e.g. for checking fill levels

Proof of compatibility

This documents the verification compatibility for combinations of weighing modules such as display devices, load cells and connecting elements.

R**Readout [d]**

Smallest readable weight increment on a digital display.

Recalibration

Periodic checking of the precision of measurement equipment/checking equipment (e.g. balances/weights) to control accuracy,
► **Control of measurement equipment**

Reference weight

(when piece counting)

See *product group 9*

"Counting balances/Counting systems"

Reproducibility (standard deviation)

Sequenced measure of conformity in repeated weighing (e.g. balances) subject to the same conditions. Mostly 1 [d] or less. Quality feature.

Resolution of a balance

The resolution is calculated from the weighing range [Max] divided by the readout [d],
e. g. [Max] 420 g : [d] 0.001 g = 420,000 points.
The resolution is a quality feature – the higher, the better.

S

SC-TECH = Single-Cell Technology

► **FORCE**. The load cell consists of a single aluminium block, which gives a very high measurement quality.



Semi-micro balance

Analytical balance with a readout [d] = 0,01 mg

Smallest part weight when counting

The smallest piece weight, which a balance can accept for piece counting. For the relevant model, enter "g/piece" in the product data table.

T

T-FORK = Tuning fork principle

A resonating body (like a tuning fork) is electromagnetically excited, causing it to oscillate. The measured value is calculated via the change in frequency corresponding to the load of the weight being measured on the scale.



Taring, automatic

► **PRE-TARE**

Taring, subtractive

The available weighing range of a balance is reduced by the value of the tare load.
Example: weighing range of a balance
Max 6000 g, Tare (= container) 470 g,
available weighing range 5530 g.

Test weight, external

(previously calibration weight)

For adjusting or checking the balance accuracy

► **Adjusting the weighing range**.

The external test weight can be DAkkS calibrated at any time, even afterwards, see *product group 18 "Calibration Service"*.



Test weight, internal

Like test weight external, but installed in the balance and powered.



Totalising

Various individual weighings are added automatically to aggregate, e.g. all individual weighings of a batch.



Traceability to the National Standard

A pre-requisite for every perfect measurement is the validated comprehensive proof that the measuring equipment can be traced back to the international or national standards. In Germany the statutory binding standards are available from the PTB.

Type approval for balances

Strict process to test whether a balance fulfils the verification requirements. A balance can only be verified, if it has got a type approval from a

► **notified body**.

U

Uncertainty of measurement of a balance (= standard deviation)

Determined for each balance according to a precisely given test method and documented in the

► **Calibration certificate**. It depends on various factors, both, internal and external. Uncertainty of measurement increases by a rising charge of the balance, see *product group 18 "Calibration Service"*

V

Verification

Verification, in accordance with the new terminology "Conformity assessment".

Only balances with ► **EC type approval** can be evaluated for conformity. These balances have an identification plate with the metrology marking **M**. The state requires assessment for conformity and this assessment serves as consumer protection.

According to EU directive 2014/31/EEC balances must be officially assessed for conformity (calibrated) if they are used as follows:

- a) in commercial trade when the price of a commodity is determined by weighing.
- b) in the manufacture of pharmaceuticals in pharmacies and analysis in pharmaceutical and medical laboratories.
- c) for official purposes.
- d) in the production of prepackaging.
- e) in medical applications.

Every balance is tested by KERN and marked with a conformity mark. Its accuracy within the framework of permissible tolerances is thereby confirmed. EU verification applies to all member states of the EU.

Verification classes of balances

Class I – Analytical balance (precision balance),
Class II – precision balance,
Class III – industrial scale (commercial scale).



Verification of a balance with adjusting program CAL EXT

The adjusting program is sealed with an official mark after the verification. Thus the verification is only valid for the specific location of use.

► **Gravitational force**

To be able to correctly adjust the balance to your location of use, it is necessary to advise the location of use and postcode. See individual model details for the information as to whether verification can be carried out in the factory or at the location of use.

Verification of a balance with automatic internal adjusting CAL INT

The above restrictions in respect of the location of use do not apply, because the automatic internal adjusting works also after verification, therefore it is not sealed. In this case, verification does not depend on the location.

Verification validity for balances

Generally 2 years for all verification classes, for control balances generally 1 year, after expiry the balance has to be re-verified.

Verification value [e]

Measure of the verification tolerance, depending on balance, mostly between 1 [d] and 10 [d] ► **Readout**

W

Weighing range [Max]

is the working range of the balance. The balance can be loaded up to the specified upper limit.

COMMITMENT TO QUALITY AT AN INTERNATIONAL LEVEL



Partners with experience and competence are an essential factor for process-oriented processes in professional weighing and measuring technology. With KERN you have a service partner by your side who has a state-of-the-art test service with an accredited calibration laboratory. Our colleagues are available both for technical questions and also individual solutions and will be glad to help you.

The following accreditations and certificates represent our commitment to quality: Certified QM system DIN EN ISO 9001, DAkkS Accreditation DIN EN ISO/IEC 17025, conformity evaluation in accordance with NAWID: 2014/31/EU, Medical certifications DIN EN ISO 13485 and 93/42/EEC.

You can also find further information online, please see www.kern-lab.com



Retailer Information

Sales Conditions

All prices are valid as of January 1st 2025, Subject to change without notice. Current prices at www.kern-sohn.com. In Europe, all prices do not include the applicable V.A.T.

Delivery Conditions

We supply ex works Balingen, e.g. the transport costs are invoiced. With our contract logistics partners we always offer you shipping at a good rate. When shipping to islands or other more distant areas, or areas which are difficult to access, the transport costs may possibly be higher, please ask for details. Any goods supplied remain KERN's property until complete payment for the goods sold has been received.



Delivery is usually via courier service.



When you see this symbol by truck, please ask for prices.

Extract from general terms and conditions

Court of jurisdiction/Legal domicile:

72336 Balingen, Germany;
Commercial register N°: HRB 400865,
AG Stuttgart; Managing director: Albert Sauter
For the full Terms and Conditions,
please refer to the website.
<https://www.kern-sohn.com/shop/en/IMPRESSUM/AGB2/>

All dimensions are approximate. Technical changes in the course of further development, printing faults, price changes and product changes are likely in individual cases, due to product modifications as well as error.

Sale or return

within 14 days of purchase. Not valid for Software and order-specific adaptations such as special productions, cable extensions, special weights, etc. or test services such as calibration, verification, etc. Depending on the time and effort involved, there may be processing and storage costs, please ask for details.

Warranty

→ 3 years for products with list price $\geq$ € 500.00
→ 2 years for components as well as products with list price $<$ € 500.00
→ 1 year for pallet truck scales
Does not apply to consumables such as batteries, rechargeable battery packs, etc.

Balances in areas regulated by law (► *Verification*) must comply with the commercial error limits during the period of validity for verification – these are usually double the verification permissible error limits. If this period of validity for verification expires, then reverification must be carried out. If, in order to pass the verification, it should be necessary to adjust the balance to comply with the verification permissible error limits, then this does not constitute a warranty claim.

Service

KERN DirectCash

The quick, secure COD procedure for protection against non-payment. With the KERN DirectCash COD system, you can safely deliver orders to end customers with unknown credit rating, with no risk of non-payment. Please request further details on this procedure.

Hire Purchase

Financing is available using KERN hire purchase – easy and convenient. Hire Purchase gives you the option of purchasing any product from our range against a simple monthly installment. The product value is financed over the period of the agreement. On payment of the last installment, the ownership of the contract item automatically transfers from the contractor to the contractee. The Hire Purchase Agreement can – if you so choose – be set for a period of between one and five years. This package includes the transfer of items as well as the guarantee for the entire transfer period.

Compared with buying the product, KERN hire purchase offers the advantage that the initial financial investment is largely unnecessary. This is particularly relevant when purchasing a number of products, for example when refitting a laboratory, a company department or a hospital ward. In addition the monthly installments constitute a direct cost and the item does not have to be capitalised by the purchaser.

After-Sales-Service

Repair service

Within 1 week at our plant in Balingen, transportation costs are additional. In urgent cases, if requested by customer, a replacement device will be provided until all repairs are completed; please ask.

Price reduction for a new device

If repair costs exceed the current value of the defective device, a new device will be offered for a discount price. This offer is valid only up to 2 years after warranty expiration.

Spare parts service

Usually within 48 hours, transportation costs are additional.

Marketing Support

KERN catalogues, brochures, branch prospectuses – your own personalised marketing tools

This catalogue and branch prospectuses are available free of charge. A neutral version of the catalogue, without the KERN address imprint, is also available free of charge for your marketing activities as PDF document. The KERN catalogue and branch prospectuses are available in the following languages: DE, EN, FR, IT, ES.

Important Notice

Explosion hazard/Humidity

Our models are not suitable for rooms with a risk of explosion. Our models are also not suitable for rooms with a high level of air humidity (condensing). Please observe the applicable electrical regulations.

Earth's gravitational force

Electronic balances are subject to location regulations due to the earth's gravitational force. If location of use is changed, reverification and recalibration of the electronic balance is needed.

Calibration Certificate with Accreditation Symbol

Upon request, you will receive a Calibration Certificate with accreditation symbol (Deutsche Akkreditierungsstelle GmbH – German accreditation point), which documents the precision of your balance in detail and also serves as your proof that you monitor your checking equipment in a Quality Management System to ISO 9001.

Accessories

Further extensive accessories for all our models can also be found in the KERN online shop www.kern-sohn.com

The oldest Precision Balance Factory in Germany

KERN & SOHN GmbH

Balances, Test Weights, Microscopes,
DAkkS Calibration Laboratory

Ziegelei 1
72336 Balingen
Germany
Tel. +49 7433 9933-0
info@kern-sohn.com
www.kern-sohn.com

Labinox

Equipamentos e Assistência Técnica, Lda.

Rua do Bairro Social, nº 63/67 – Fração D

3885-523 ESMORIZ – PORTUGAL

TELF: (+351) 910 349 142 / e-mail:
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