

KERN Pictograms

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

GLP/ISO log:
The balance displays serial number, user ID, weight, date and time, regardless of a printer connection

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

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

GLP/ISO log:
With weight, date and time. Only with KERN printers, see page 154/155

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

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

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

Rechargeable battery pack:
Rechargeable set

Alibi memory:
Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard. For details see page 191

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

Universal mains adapter: with universal input and optional input socket adapters for
A) EU, GB
B) EU, GB, CH, USA
C) EU, GB, CH, USA, AUS

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

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

Mains adapter:
230V/50Hz in standard version for EU. On request GB, USA or AUS version available

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

Recipe level C:
Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, multiplier function, adjustment of recipe when dosages are exceeded or barcode recognition

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

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

Weighing principle: Strain gauges
Electrical resistor on an elastic deforming body

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

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

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

WLAN data interface:
To transfer data from the balance to a printer, PC or other peripherals

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

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

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

Weighing units:
Can be switched to e.g. nonmetric units at the touch of a key. See balance model. Please refer to KERN's website for more details

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

Interface for second balance:
For direct connection of a second balance

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

Verification possible:
The time required for verification is specified in the pictogram

Network interface:
For connecting the scale to an Ethernet network

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

Wireless data transfer:
between the weighing unit and the evaluation unit using an integrated radio module

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

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

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

Protection against dust and water splashes IPxx:
The type of protection is shown in the pictogram. For details see page 58

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

Stainless steel:
The balance is protected against corrosion

KERN – measuring technology and testing services from a single source



Balances & Test service catalogue

Provides a complete overview of the KERN line of balances, test weights, and services such as verification, calibration, etc.

Medical scales catalogue

Complete line of medical scales, from infant scales to patient scales, chair scales and adiposity scales, as well as hand grip dynamometers, chemist's balances and veterinary scales.

Microscopes & refractometers catalogue

Extensive range in the area of optical instruments, such as, for example, biological microscopes, stereo microscopes, metallurgical microscopes, polarisation microscopes as well as analogue and digital refractometers.

SAUTER measuring equipment catalogue

Test instruments for industry and commerce, such as force, coating thickness, material thickness and calibration service.

DAkkS calibration service brochure

Detailed information on topics pertaining to the calibration and verification of balances, test weights, and force measuring devices.

Your advantages

fast

- 24 hours delivery service for products in stock – ordered today, on its way tomorrow
- Sales & service hotline available from 8:00 am to 6:00 pm

competent

- DAKkS accreditation
DIN EN ISO/IEC 17025
- Certified QM system
DIN EN ISO 9001
- Authorisation for initial verification by the manufacturer 2014/31/EU
- Medical certifications
DIN EN ISO 13485 and 93/42/EEC

versatile

- One-stop shopping: from pocket balances through to 15 t crane balance – everything from one supplier
- Find the product you want at lightning speed with the “Balance Quick-Finder” at www.kern-sohn.com

reliable

- Up to 3 years warranty
- Precision in weighing technology for more than 170 years

Order hotline
+49 [0] 7433 9933-0

Online Shop
www.kern-sohn.com

Service hotline
+49 [0] 7433 9933-199

E-mail order
info@kern-sohn.com

Calibration hotline
+49 [0] 7433 9933-196

Fax order
+49 [0] 7433 9933-146

Our team of consultants will assist you
from Monday to Friday
from 8:00 am to 6:00 pm

Keyword index

A
Accessories _____ 153-181
Adiposity scales _____ see website
Alibi memory _____ 39, 54, 100, 191
Analytical balances _____ 34-39
Animal scales _____ 20-22, 27, 31, 36, _____ 49-51, 53, 54, 66, 87-103, 108, _____ 110-124, 128-130, 141, 142

B
Baby scales _____ see website
Bathroom scales _____ see website
Bench scales _____ 45-57
Bluetooth/RS-232 converter _____ 157
Body fat scales _____ see website

C
Calibration _____ 182-190
Calibration Service _____ 182-190
Carat balances _____ 10, 18
Case, for transport _____ 159
Catalogues, Brochures, Flyer _____ 2, 194
Certificates, DKD/DAkkS _____ 182-190
Chair scales _____ see website
Chair weighers _____ see website
Coating thickness gauges _____ see website
Control of checking equipment _____ 182, 193
Counting scales _____ 71-79
Counting systems _____ 81
Crane scales _____ 143-149

D
DAkkS/DKD _____ 182-190
Density determination _____ 17, 18, 22, 24, 26-28, _____ 30-32, 36-39, 53, 54, 96, 100, 160, 191
Display devices _____ 126-130
Display, large _____ 158
Drive-through scale _____ 123-124
Drying balance _____ 40-43

E
Ethernet/RS-232 converter _____ 157
Explosion hazard _____ 194

F
Fiberglass filter _____ 40-43
Floor scales _____ 105-117
Foot switch _____ see website
Force gauges _____ see website

G
Glossary _____ 191-193
Grain balances _____ see website
Gravitation _____ 192, 194

H
Hand grip dynamometer _____ see website
Handrail scales _____ see website
Hanging scales _____ 139-149
Hardness tester _____ see website
Height rods _____ see website
History KERN _____ 196 (back cover)
Hydrostatic balances _____ 17, 18, 22, 24, _____ 26-28, 30-32, 36-39, _____ 53, 54, 96, 100

I
Industrial scales _____ 45-152
Information _____ 2-5, 191-194
Interface cable _____ 155
Internet _____ 2, 194
Ioniser _____ 160
IP 65...68 scales _____ 58-66, 90-95, _____ 97, 98, 102, 107-124, _____ 129-134, 136-138, 142
ISO calibration _____ 182-190

L
Laboratory balances _____ 11-43
Length measuring devices _____ see website

M
Mechanical balances (spring balances) _____ see website
Medical scales _____ see website
Microscopes, biological _____ see website
Microscopes, metallurgical _____ see website
Microscopes, polarisation _____ see website
Microscopes, stereo _____ see website
Moisture analysers _____ 40-43

P
Pallet scales _____ 119-122
Pallet truck scales _____ 135-138
Personal scales _____ see website
Pictograms _____ 2
Platform scales _____ 126-134
Platforms _____ 131-134
Plummet, density determination _____ 160
Pocket balances _____ 9-10
Power supply adapter set _____ 159
Pre-packaging legislation _____ 151, 192
Pre-packaging legislation, scale to meet with _____ 152
Precision balances _____ 11-32
Price computing scales _____ 67-70
Printer _____ 154-155
Protective dust cover _____ 160

R
Recalibration _____ 182-190
Refractometers, analogue _____ see website
Refractometers, digital _____ see website
Retail scales _____ 67-70
Roller conveyor _____ 161
RS-232/Bluetooth converter _____ 157
RS-232/Ethernet converter _____ 157
RS-232/USB converter _____ 157
RS-232/WLAN converter _____ 158

S
Sample plates, aluminium _____ 41-43
Semi-micro balances _____ 36-39, 192
Signal lamp _____ 158
Software _____ 156
Spring balances _____ see website
Stainless steel scales _____ 58-66
Stocktaking scale _____ 80-81

T
Tare pan _____ 159
Temperature calibration set _____ 41-43
Tension force gauge _____ 143-144
Tension transducer _____ 143-144
Terminals _____ 126-134
Test service _____ 182-190
Test stands _____ see website
Test weights _____ 162-181
Thickness gauges _____ see website
Touchscreen scales _____ 54-57, 102, 129, 151
Transport case _____ 159
Tweezers _____ 180

U
Underfloor weighing, accessories _____ 17, 18, _____ 22, 24, 26-28, 30-32, 36-39, _____ 53, 54, 96, 100, 160, 191
USB/RS-232-Adapter _____ 157

V
Verification _____ 188, 191

W
Warranty _____ 2, 194
Weighing beams _____ 118, 133
Weighing bridges _____ 132-134
Weighing table _____ 161
Weights _____ 162-181
Wheelchair scales _____ see website
WLAN/RS-232 converter _____ 158

*The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by KERN & SOHN GmbH is under license. Other trademarks and trade names are those of their respective owners.

Product group index 2018

01 NEW	System solutions Industry 4.0		6 – 7
02	Pocket balances		9 – 10
03 NEW	Precision balances		11 – 32
04 NEW	Analytical balances		34 – 39
05	Moisture analysers		40 – 43
06 NEW	Bench scales		45 – 57
07	Stainless steel/Protection against dust and water splashes IP65...68		58 – 66
08 NEW	Price computing scales		67 – 70
09	Counting scales/Counting systems		71 – 81
10 NEW	Parcel scales/Platform scales/Roller conveyor		82 – 103
11 NEW	Floor scales/Pallet scales/Drive-through scales		105 – 124
12 NEW	Display devices/Platforms/Weighing bridges		126 – 134
13	Pallet truck scales		135 – 138
14 NEW	Hanging scales/Crane scales		139 – 149
15	Special equipment: Scales to meet Pre-packaging legislation		151 – 152
16	Accessories		153 – 161
17	Test weights		162 – 181
18	DAkkS Calibration Service (DKD) and Verification service		182 – 189

Do you have questions about our products?
Our customer consultants will be pleased to assist you:

UK, IE, S, N, FIN, IS, FO, MT



Marietta Gulde

Tel. +49 [0] 7433 9933-288
Fax +49 [0] 7433 9933-29288
Mobil +49 [0] 151 46143236
marietta.gulde@kern-sohn.com

**USA, CAN, TR, PL, EE, LT, LV, Middle East,
Africa, Oceania**



Matthias Huget

Tel. +49 [0] 7433 9933-118
Fax +49 [0] 7433 9933-29118
matthias.huget@kern-sohn.com

BG, South East Asia, Germany (PC 3)



Corinna Klaass

Tel. +49 [0] 7433 9933-215
Fax +49 [0] 7433 9933-29215
Mobil +49- [0]151 44568364
klaass@kern-sohn.com

CZ, SK, GUS



Inna Wandler

Tel. +49 [0] 7433 9933-167
Fax +49 [0] 7433 9933-29167
wandler@kern-sohn.com

BeNeLux, SLO, HR, BA, RS, MK



Taras Mikitisin

Tel. +49 [0] 7433 9933-143
Fax +49 [0] 7433 9933-29143
Mobil +49 [0] 171 5590115
mikitisin@kern-sohn.com

HU, RO, Germany (PC 5, 6)



Fabienne Kolbus

Tel. +49 [0] 7433 9933-305
Fax +49 [0] 7433 9933-29305
Mobil +49 [0] 171 3031168
fabienne.kolbus@kern-sohn.com

Board of Management



Albert Sauter

Tel. +49 [0] 7433 9933-157
Fax +49 [0] 7433 9933-29157
albert-sauter@kern-sohn.com

Sales Management



Ulrich Ulmer

Tel. +49 [0] 7433 9933-160
Fax +49 [0] 7433 9933-29160
Mobil +49 [0] 172 7423944
ulmer@kern-sohn.com

Marketing Management



Thomas Fimpel

Tel. +49 [0] 7433 9933-130
Fax +49 [0] 7433 9933-29130
fimpel@kern-sohn.com

Technical Service



Markus Reinke

Tel. +49 [0] 7433 9933-190
Fax +49 [0] 7433 9933-195
reinke@kern-sohn.com



Edgar Litt

Tel. +49 [0] 7433 9933-191
Fax +49 [0] 7433 9933-195
litti@kern-sohn.com

DAkKS Calibration Service (DKD)



FR, BeNeLux, DK, TR, GR, Africa,
North, Central & South America,
DE (Zip Code 8,9)

Tolga Gümüş

Tel. +49 [0] 7433 9933-210
Fax +49 [0] 7433 9933-29210
tolga.guemues@kern-sohn.com



GB, IE, PT, IT, ES, SE, NO, FI,
DE (Zip Code 5, 6, 7)

Sandra Ehinger

Tel. +49 [0] 7433 9933-162
Fax +49 [0] 7433 9933-29162
sandra.ehinger@kern-sohn.com



AT, CH, GUS, Eastern Europe, Asia,
DE (Zip Code 0,1,2,3, 4)

Waldemar Fleitling

Tel. +49 [0] 7433 9933-163
Fax +49 [0] 7433 9933-29163
fleitling@kern-sohn.com

Accountancy



Jutta Osswald

Tel. +49 [0] 7433 9933-215
Fax +49 [0] 7433 9933-149
jutta.osswald@kern-sohn.com

We also have lots of new models
in our range for 2018.
Innovative products in the usual KERN quality:

Weighing sensor KDP

New digital platform, which emits
digital weighing results directly to
a PC without any display device



Further details ► page 7
only € 390,-

Analytical balance ADB

The price leader in analytical
balances – now in a new compact
design and with special carat
model



Further details ► page 35
from € 610,-

Analytical balances ALS-A/ALJ-A

Now as semi-micro balance and
with integrated ioniser



Further details ► page 36
from € 930,-

Price computing scale RFE

Compact portion scale with 2 XXL
displays – weight, unit price, total
price and TARE value at a glance



Further details ► page 70
only € 295,-

Industrial platform scale IOC

Allrounder platform scale with
EC type approval [M] and practical
Flip/Flop display device for
greatest ease of use



Further details ► page 94
from € 295,-

Floor scales BID

Floor scale with the best price
performance ratio and EC type
approval [M]



Further details ► page 108
from € 1050,-

Pallet scale UIB

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



Further details ► page 119
only € 730,-

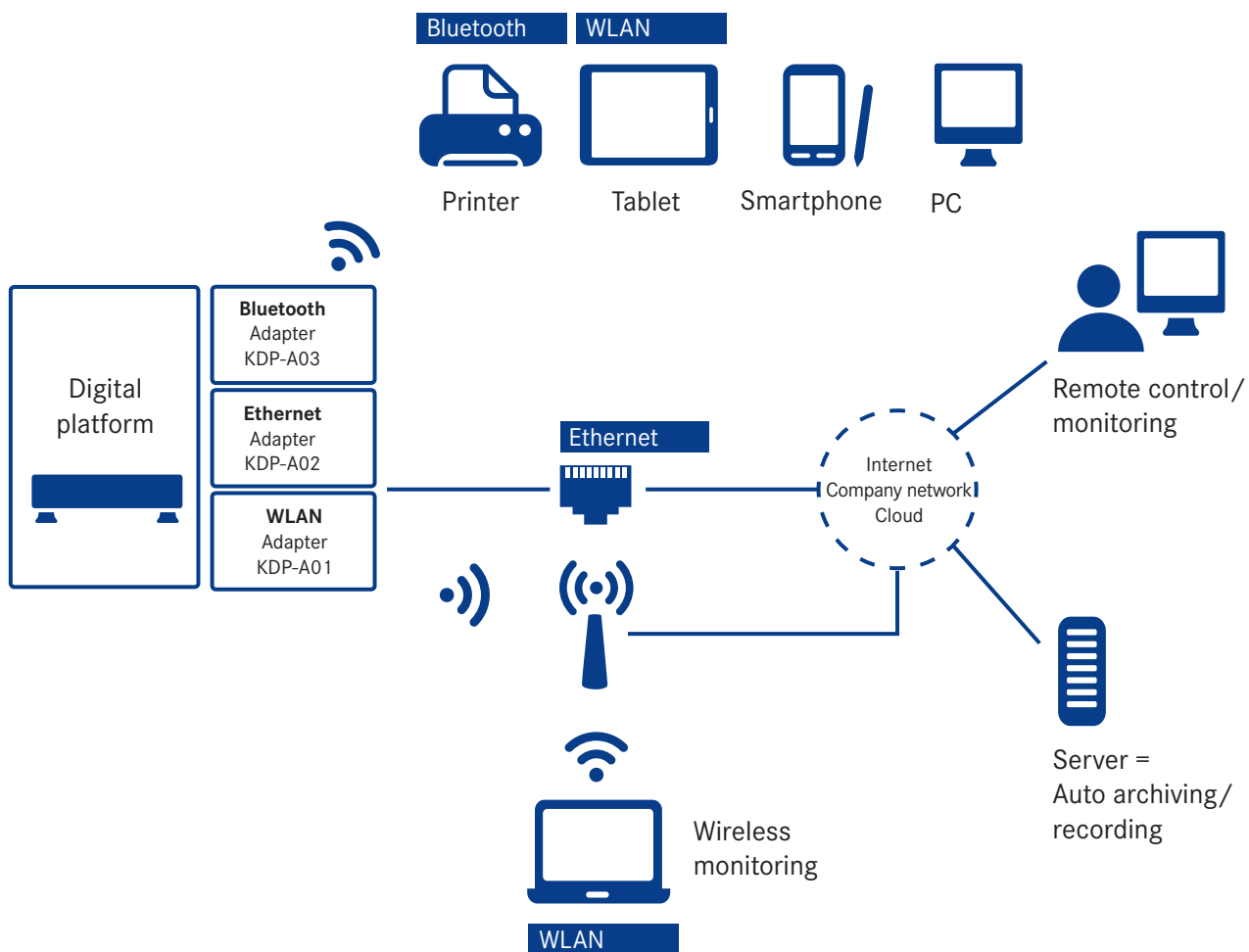
Crane scale HFD

Robust high resolution industrial
crane scale up to 12 t



Further details ► page 146
from € 370,-

System solutions 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 156.

The KERN team in our centre of expertise – Industry 4.0



Daniel Egeler



Edgar Litti



Markus Reinke



Max Matthes



Stefan Rothmund

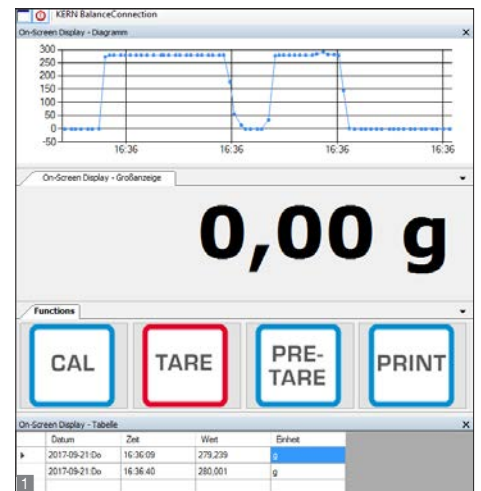
► We would like to inform you and advise you

Tel. +49 [0] 7433 9933-200

ITsupport@kern-sohn.com

NEW

01



Universal weighing platforms for flexible connection into process chains

Features

- Industry 4.0: 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 balance with a tablet or PC offers the advantage of being able to use the apps and programs which are on that device. These apps and programs are usually already tailored to your needs, are easy and convenient to use and can often be expanded as needed. This offers you the maximum level of flexibility when displaying, processing and saving the recorded weighing data
- **Searching and remote control of the balance** using external control devices or computers with the KERN Communication Protocol KCP (Standard Interface Command Set). KCP is a standardised interface command structure for KERN balances and other instruments
- which allows you to recall and manage all relevant parameters and device functions. You can therefore simply connect KERN devices with KCP to computers, industrial control systems and other digital systems.
- **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
- **Draught shield** standard for models with weighing plate size **A**, weighing space W×D×H 146×146×80 mm
- Included with delivery: **1 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

Technical data

- Dimensions weighing surface
 - A** Ø 105 mm
 - B** B×T 160×160 mm
- Weighing plate material
 - A** plastic, with conductive lacquer
 - B** stainless steel
- 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

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Read-out [d] g	Reproducibility g	Linearity g	Weighing plate mm	Price excl. of VAT ex works €	Options	
							DAkkS Calibr. Certificate	
KERN							DKD KERN	€
KDP 300-3	350	0,001	0,002	± 0,005	A	390,-	963-127	72,-
KDP 3000-2	3500	0,01	0,02	± 0,05	B	390,-	963-127	72,-
KDP 10K-4	10000	0,1	0,1	± 0,3	B	390,-	963-128	88,-
KDP 10K-3	10000	1	1	± 3	B	390,-	963-128	88,-



”

For us here at KERN, “Industry 4.0” offers great opportunities. It facilitates greater networking of products and machines, thereby increasing efficiency, reducing costs and saving valuable resources at the same time. You can also benefit from our weighing systems and components which have been optimised to meet the requirements of Industry 4.0. Intelligent monitoring of the recorded weights ensures transparent processes, helps to minimise error rates and costs and increase efficiency. Thanks to modern IT solutions and weighing systems, which, in contrast to previous systems can now be programmed to meet new requirements separately and without laborious programming, it is possible to react to individual customer requirements immediately. Boost this bonus in revenue potential, come and talk to us, we will be happy to help you.

“

Otto Grunenberg, Head of Technical Department & Test Services






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. An integrated calculator allows you to use the measured weight immediately in calculations, to e.g. determine a price, quantity, average value and much more. 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 black powder, weighing parts from modelling kits etc.
- In commerce, for the fast determination of the weights of coins, jewellery, precious stones, etc.
- In 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

Read-out [d] g	Weighing range [Max] g	Model KERN	Price excl. of VAT ex works €	Page	 DAYS	 CAL EXT	 BATT
For an explanation on the pictos, see front flap							
0,001	20	TAB 20-3 	70,-	10	1	●	●
0,002	10	CM 50-C2N 	90,-	10	1	●	●
0,01	60	CM 60-2N	79,-	10	1	●	●
0,1	150	TEE 150-1	38,-	10	1	●	●
0,1	150	CM 150-1N	52,-	10	1	●	●
0,1	200	TCB 200-1	52,-	10	1	●	●
0,1	320	CM 320-1N	55,-	10	1	●	●
1	1000	CM 1K1N	52,-	10	1	●	●

 = Carat balances

● = standard

○ = option



- ▶ Simple and convenient 2-key operation
- ▶ Backlit LCD display
- ▶ Cover can also be used as a tare cup
- ▶ Also ideal as a gift for your customers

Fabienne Kolbus
Product specialist Pocket balances

Tel. +49 [0] 7433 9933-305
Fax +49 [0] 7433 9933-29305
fabienne.kolbus@kern-sohn.com



KERN TEE



KERN TEE

Designer pocket balance at a bargain price



- Simple and convenient 2-key operation
- Cover made of shock proof plastic as protection against pressure and dust. Can also be used as a tare cup
- **Note: Can be printed with your logo**, from 100 pcs on. Please ask for details

KERN TCB

This is where the fun starts with pocket format weighing



- Simple and convenient 2-key operation
- Small and handy
- Transport box and weighing pan included
- Revolving weighing plate (as overload protection)
- **Note: Individual logo printing on request**

1 KERN CM

Pocket balance with integrated pocket calculator (CM) or with carat display (CM-C) – ideal for jewellers



- Hard case cover as protection against pressure and dust
- 1 CM:**
 - Integrated calculator
- 2 CM-C:**
 - Hard case cover as protection against pressure and dust
 - Adjusting weight standard
 - Draft shield against air movements standard
 - Weighing pan standard



2

KERN TAB

High-precision pocket carat balance for jewellers and travelling salesmen



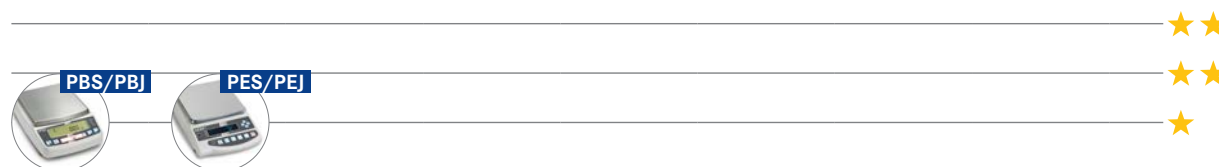
- Simple and convenient 4-key operation
- Can be switched over from g to ct, gn at the touch of a key
- Hard case cover as protection against pressure and dust
- Adjusting weight and weighing pan standard

KERN	TEE 150-1	TCB 200-1	CM 60-2N	CM 150-1N	CM 320-1N	CM 1K1N	CM 50-C2N	TAB 20-3
Weighing range [Max] g	150 g	200 g	60 g	150 g	320 g	1000 g	10 g 50 ct	20 g 100 ct
Readout [d]	0,1 g	0,1 g	0,01 g	0,1 g	0,1 g	1 g	0,002 g 0,01 ct	0,001 g 0,005 ct
LCD display	backlit, digit height 9 mm	Digit height 9 mm	Digit height 12 mm				Digit height 9 mm	backlit, digit height 9 mm
Dimensions of weighing plate	W×D 60×64 mm	ø 80 mm	W×D 70×80 mm				W×D 50×40 mm	W×D 36×42 mm
Overall dimensions	W×D×H 67×100×22 mm	ø×H 80×14 mm	W×D×H 85×130×25 mm					W×D×H 95×133×33 mm
Power supply	Batteries included, 2×1,5 V AAA, operating time approx. 50 h	Batteries included, 2×LR 44, AUTO-OFF function to preserve battery life, can be switched off	Batteries included, 2×1,5 V AAA, AUTO-OFF function to preserve battery life, can be switched off					Batteries included, 4×1,5 V AAA, operating time approx. 150 h
			Operating time:					
Net weight	100 g	50 g	ca. 30 h	ca. 70 h		ca. 30 h		200 g
Permissible ambient temperature	5 °C/35 °C							10 °C/30 °C
Price €, excl. of VAT, ex works	38,-	52,-	79,-	52,-	55,-	52,-	90,-	70,-
Option DAKkS Calibr. Certificate	963-127, 72,-							

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

PREMIUM LABORATORY BALANCES



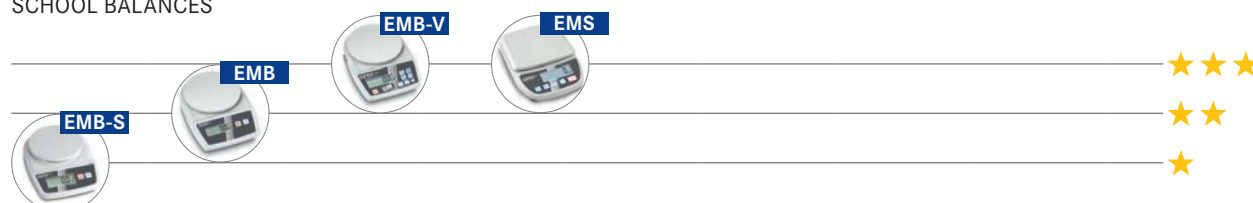
STANDARD LABORATORY BALANCES



BASIC LABORATORY BALANCES



SCHOOL BALANCES



KERN PFB

- High resolution precision balance
- Concept of easy use
- Stable housing
- Available with separate second display

Corinna Klaass
Product specialist Precision balances

Tel. +49 [0] 7433 9933-215
Fax +49 [0] 7433 9933-29215
klaass@kern-sohn.com



Precision balances

KERN school balances

are entry-level devices in the field of laboratory balances, and they cover basic applications. They feature simple operation and the very best price/performance ratio. In addition they can be stacked and can also be operated by battery, as an alternative to mains power, which means that they have the flexibility to be used in different locations.

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 permits calibrated operation and 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 and in some cases, the most modern touchscreen technology. With its touchscreen technology a premium laboratory balance will support your

users in their typical procedures. 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 and regulations such as, for example, the FDA (Food and Drug Administration).

In order to make it easier for you to make the right choice of KERN balance, we have included a quality code for each model, which is made up of two quality features and will give you technical data and pictograms in addition to the product features. This will help you to make the decision on the perfect balance for your application:



The stability quality feature

On the basis of the information on the housing material and total weight of the balance, the stability quality feature gives you an indication of the types of application for which the balance is particularly well-suited. Due to their low weight, materials such as plastic allows structures which are particularly advantageous for mobile applications. The appeal of models which are used to process high-quality, heavy material, such as, for example, aluminium casting or steel, is their durability and robustness and the fact that they are less susceptible to vibrations. A high level of stability allows rapid, repeatable weighing results.











Categorisation in **A, B, C, best value: C**

The dosing level quality feature

comes from the values for reaction time, stabilisation time and behaviour during long-term weighing procedures. These parameters give information about how well-suited a model is for fine dosing, amongst other functions. In particular with these dosing procedures, the balance performs a balancing act between filtering out disruptive environmental influences, such as, for example, vibrations on the one hand, and the highest level of accuracy as well as rapid display when weighing goods right down to the smallest division [d] on the other hand. In addition this value is printed, whether drift effects influence the continuous measurement in long-term trials. Categorisation into **A, B, C, best value: C**











If you have further questions on the subject of “Which balance will be best for my application?”, then please ask your personal KERN product specialist who will be happy to help you.

Quick-Finder Precision balances

Readout [d] g	Weighing range [Max] g	Model KERN	Price excl. of VAT ex works €	Page	Quality code OQA LITY	 DAYS									
For an explanation on the pictos, see front flap															
0,001	60	440-21A	350,-	22	AA	1			●		●	●		●	○
0,001	100	EMB 100-3	195,-	17	AA	1			●					●	
0,001	100	PCB 100-3	265,-	21	AA	1			●		●	●		●	○
0,001	120	PFB 120-3	280,-	23	BA	1			●		●	●			
0,001	120	KB 120-3N	290,-	25	AA	1			●		●	●			○
0,001	200	EMB 200-3	210,-	17	AA	1			●					●	
0,001	200	EMB 200-3V	250,-	18	AA	1			●		●			●	
0,001	200	PFB 200-3	290,-	23	BA	1			●		●	●			
0,001	220	EW 220-3NM	620,-	30	AB	1			●		●	●	●		○
0,001	220	EG 220-3NM	760,-	30	BB	1	○	●			●	●	●		○
0,001	240	KB 240-3N	300,-	25	AA	1			●		●	●			○
0,001	240	572-30	520,-	27	BA	1			●		●	●			○
0,001	250	PCD 250-3	305,-	20	AA	1			●		●	●		●	○
0,001	250	PCB 250-3	290,-	21	AA	1			●		●	●		●	○
0,001	300	EMS 300-3	260,-	19	AA	1			●		●	●		●	
0,001	300	PFB 300-3	320,-	23	BA	1			●		●	●			
0,001	300	EWJ 300-3	450,-	26	BA	1		●			●	●			○
0,001	300	EWJ 300-3H	490,-	26	BA	1		●			●	●			○
0,001	300	572-31	530,-	27	BA	1			●		●	●			○
0,001	350	PCD 300-3	350,-	20	AA	1			●		●	●		●	○
0,001	350	PCB 350-3	300,-	21	AA	1			●		●	●		●	○
0,001	360	KB 360-3N	310,-	25	AA	1			●		●	●			○
0,001	420	PLE 420-3N	450,-	24	AA	1			●		●	●	●		○
0,001	420	572-32	540,-	27	BA	1			●		●	●			○
0,001	420	PLS 420-3F	590,-	28	BA	1			●		●	●	●		
0,001	420	PLJ 420-3F	700,-	28	BA	1		●			●	●	●		
0,001	420	EW 420-3NM	690,-	30	AB	1			●		●	●	●		○
0,001	420	EG 420-3NM	830,-	30	BB	1	○	●			●	●	●		○
0,001	620	PNS 600-3	620,-	29	BB	1			●		●	●	●		
0,001	620	PNJ 600-3M	730,-	29	BB	1	○	●			●	●	●		
0,001	620	EW 620-3NM	770,-	30	AB	1			●		●	●	●		○
0,001	620	EG 620-3NM	930,-	30	BB	1	○	●			●	●	●		○
0,001	620	PBS 620-3M	1370,-	31	BC	1			●		●	●	●		
0,001	620	PBJ 620-3M	1610,-	31	BC	1	○	●			●	●	●		
0,001	620	PES 620-3M	1280,-	32	BB	1			●		●	●	●		○
0,001	620	PEJ 620-3M	1480,-	32	BB	1	○	●			●	●	●		
0,001	720	PLS 720-3A	840,-	28	BC	1			●		●	●	●		
0,001	720	PLJ 720-3A	980,-	28	CC	1		●			●	●	●		
0,001	720	PLJ 720-3AM	990,-	28	CC	1	○	●			●	●	●		
0,001	1200	PLS 1200-3A	870,-	28	BC	1			●		●	●	●		
0,001	1200	PLJ 1200-3A	1000,-	28	CC	1		●			●	●	●		
0,001	2100	PLJ 2000-3A	1650,-	28	CC	1		●			●	●	●		
0,01	200	EMB 200-2	125,-	17	AA	1			●					●	
0,01	200	PCB 200-2	230,-	21	AA	1			●		●	●		●	○
0,01	200	440-33N	290,-	22	AA	1			●		●	●		●	○
0,01	400	440-35N	330,-	22	AA	1			●		●	●		●	○
0,01	600	EMB 600-2	160,-	17	AA	1			●					●	
0,01	600	440-35A	365,-	22	AA	1			●		●	●		●	○
0,01	600	EWJ 600-2SM	350,-	26	BA	1	○	●				●			○
0,01	600	EWJ 600-2M	360,-	26	BA	1	○	●			●	●			○
0,01	650	KB 650-2N	270,-	25	BA	1			●		●	●			○
0,01	650	573-34	590,-	27	BA	1			●		●	●			○
0,01	820	EW 820-2NM	540,-	30	BB	1			●		●	●	●		○
0,01	1000	EMB 1000-2	195,-	17	AA	1			●					●	
0,01	1000	PCB 1000-2	255,-	21	AA	1			●		●	●		●	○
0,01	1200	PFB 1200-2	245,-	23	BA	1			●		●	●			
0,01	1200	KB 1200-2N	280,-	25	BA	1			●		●	●			○
0,01	1600	572-33	490,-	27	BA	1			●		●	●			○
0,01	2000	EMB 2000-2	205,-	17	AA	1			●					●	
0,01	2000	EMB 2000-2V	250,-	18	AA	1			●		●			●	
0,01	2000	PFB 2000-2	255,-	23	BA	1			●		●	●			
0,01	2000	KB 2000-2N	280,-	25	BA	1			●		●	●			○
0,01	2200	EW 2200-2NM	660,-	30	BB	1			●		●	●	●		○
0,01	2200	EG 2200-2NM	820,-	30	BB	1	○	●			●	●	●		○
0,01	2200	PES 2200-2M	840,-	32	BB	1			●		●	●	●		○
0,01	2200	PEJ 2200-2M	1060,-	32	CB	1	○	●			●	●	●		
0,01	2400	KB 2400-2N	290,-	25	BA	1			●		●	●			○
0,01	2400	572-35	500,-	27	BA	1			●		●	●			○
0,01	2500	PCD 2500-2	295,-	20	BA	1			●		●	●		●	○
0,01	2500	PCB 2500-2	290,-	21	BA	1			●		●	●		●	○
0,01	3000	EMS 3000-2	240,-	19	BA	1			●		●	●		●	
0,01	3000	PFB 3000-2	280,-	23	BA	1			●		●	●			











● = standard ○ = option

Quick-Finder Precision balances

Readout [d] g	Weighing range [Max] g	Model KERN	Price excl. of VAT ex works €	Page	Quality code OQA LITY	 DAYS	 M	 CAL INT	 CAL EXT	 MEMORY	 RS 232	 PCS	 TOL	 BATT	 ACCU
For an explanation on the pictos, see front flap															
0,01	3000	EWJ 3000-2	430,-	26	BA	1		●			●	●			○
0,01	3000	572-37	510,-	27	BA	1			●		●	●			○
0,01	3100	PLJ 3000-2FM	630,-	28	BA	1		●			●	●	●		
0,01	3200	PNS 3000-2	580,-	29	BB	1			●		●	●	●		
0,01	3200	PNJ 3000-2M	705,-	29	BB	1	○	●			●	●	●		
0,01	3500	PCD 3000-2	350,-	20	BA	1			●		●	●		●	○
0,01	3500	PCB 3500-2	300,-	21	AA	1			●		●	●		●	○
0,01	3600	KB 3600-2N	310,-	25	BA	1			●		●	●			○
0,01	4200	PLE 4200-2N	450,-	24	AA	1			●		●	●			○
0,01	4200	572-39	520,-	27	BA	1			●		●	●			○
0,01	4200	PLS 4200-2F	590,-	28	BA	1			●		●	●			
0,01	4200	PLJ 4200-2F	690,-	28	BA	1		●			●	●	●		
0,01	4200	EW 4200-2NM	760,-	30	BB	1			●		●	●	●		○
0,01	4200	EG 4200-2NM	880,-	30	BB	1	○	●			●	●	●		○
0,01	4200	PBS 4200-2M	1160,-	31	BC	1			●		●	●	●		
0,01	4200	PBJ 4200-2M	1430,-	31	CC	1	○	●			●	●	●		
0,01	4200	PES 4200-2M	1000,-	32	BB	1			●		●	●	●		○
0,01	4200	PEJ 4200-2M	1230,-	32	CB	1	○	●			●	●	●		
0,01	6200	PLS 6200-2A	870,-	28	BC	1			●		●	●	●		
0,01	6200	PLJ 6200-2A	990,-	28	CC	1		●			●	●	●		
0,01	6200	PLJ 6200-2AM	1000,-	28	CC	1	○	●			●	●	●		
0,01	6200	EW 6200-2NM	810,-	30	BB	1			●		●	●	●		○
0,01	6200	PBS 6200-2M	1390,-	31	BC	1			●		●	●	●		
0,01	6200	PBJ 6200-2M	1730,-	31	CC	1	○	●			●	●	●		
0,01	6200	PES 6200-2M	1240,-	32	BB	1			●		●	●	●		○
0,01	8200	PLS 8000-2A	1050,-	28	BC	1			●		●	●	●		
0,05	6000	PFB 6000-2	250,-	23	BA	1			●		●	●			
0,05	10000	KB 10K0.05N	280,-	25	BA	1			●		●	●			○
0,05	12000	572-45	490,-	27	BA	1			●		●	●			○
0,05	20000	572-55	520,-	27	BA	1			●		●	●			○
0,1	200	EMB 200-1SS05	180,-	16	AA	1			●					●	
0,1	400	440-43N	185,-	22	AA	1			●		●	●		●	○
0,1	500	EMB 500-1SS05	200,-	16	AA	1			●					●	
0,1	500	EMB 500-1	57,-	17	AA	1			●					●	
0,1	500	EMB 500-1BE	57,-	17	AA	1			●					●	
0,1	1000	PCB 1000-1	185,-	21	AA	1			●		●	●		●	○
0,1	1000	440-45N	245,-	22	AA	1			●		●	●		●	○
0,1	1200	EMB 1200-1	80,-	17	AA	1			●					●	
0,1	2000	PCB 2000-1	215,-	21	AA	1			●		●	●		●	○
0,1	2000	440-47N	270,-	22	AA	1			●		●	●		●	○
0,1	3000	EMB 3000-1	125,-	17	AA	1			●					●	
0,1	4000	440-49N	330,-	22	AA	1			●		●	●		●	○
0,1	6000	EMB 6000-1	160,-	17	AA	1			●					●	
0,1	6000	EMS 6K0.1	160,-	19	AA	1			●			●		●	
0,1	6000	PCD 6K-4	260,-	20	BA	1			●		●	●		●	○
0,1	6000	PCB 6000-1	240,-	21	BA	1			●		●	●		●	○
0,1	6000	440-49A	365,-	22	AA	1			●		●	●		●	○
0,1	6000	PFB 6000-1	220,-	23	BA	1			●		●	●			
0,1	6000	EWJ 6000-1SM	340,-	26	BA	1	○	●				●			○
0,1	6000	EWJ 6000-1M	350,-	26	BA	1	○	●			●	●			○
0,1	6500	KB 6500-1N	260,-	25	BA	1			●		●	●			○
0,1	6500	573-46	590,-	27	BA	1			●		●	●			○
0,1	8200	PBJ 8200-1M	1420,-	31	CC	1	○	●			●	●	●		
0,1	10000	PCD 10K0.1	240,-	20	BA	1			●		●	●		●	○
0,1	10000	PCB 10000-1	245,-	21	BA	1			●		●	●		●	○
0,1	10000	KB 10000-1N	270,-	25	BA	1			●		●	●			○
0,1	10000	572-43	480,-	27	BA	1			●		●	●			○
0,1	12000	EMS 12K0.1	205,-	19	BA	1			●			●		●	
0,1	12000	PNS 12000-1	570,-	29	BB	1			●		●	●	●		
0,1	12000	PNJ 12000-1M	705,-	29	BB	1	○	●			●	●	●		
0,1	12000	EW 12000-1NM	630,-	30	BB	1			●		●	●	●		○
0,1	15000	PES 15000-1M	1190,-	32	BB	1			●		●	●	●		○
0,1	16000	572-49	490,-	27	BA	1			●		●	●			○
0,1	20000	PLS 20000-1F	570,-	28	BA	1			●		●	●	●		
0,1	24000	572-57	500,-	27	BA	1			●		●	●			○
0,1	31000	PES 31000-1M	2050,-	32	CB	1			●		●	●	●		○
1	2000	EMB 2000-OSS05	180,-	16	AA	1			●					●	
1	2200	EMB 2200-0	60,-	17	AA	1			●					●	
1	4000	440-51N	160,-	22	AA	1			●		●	●		●	○
1	5000	EMB 5000-OSS05	200,-	16	AA	1			●					●	
1	5200	EMB 5.2K1	60,-	17	AA	1			●					●	
1	6000	EMS 6K1	70,-	19	AA	1			●			●		●	

● = standard ○ = option

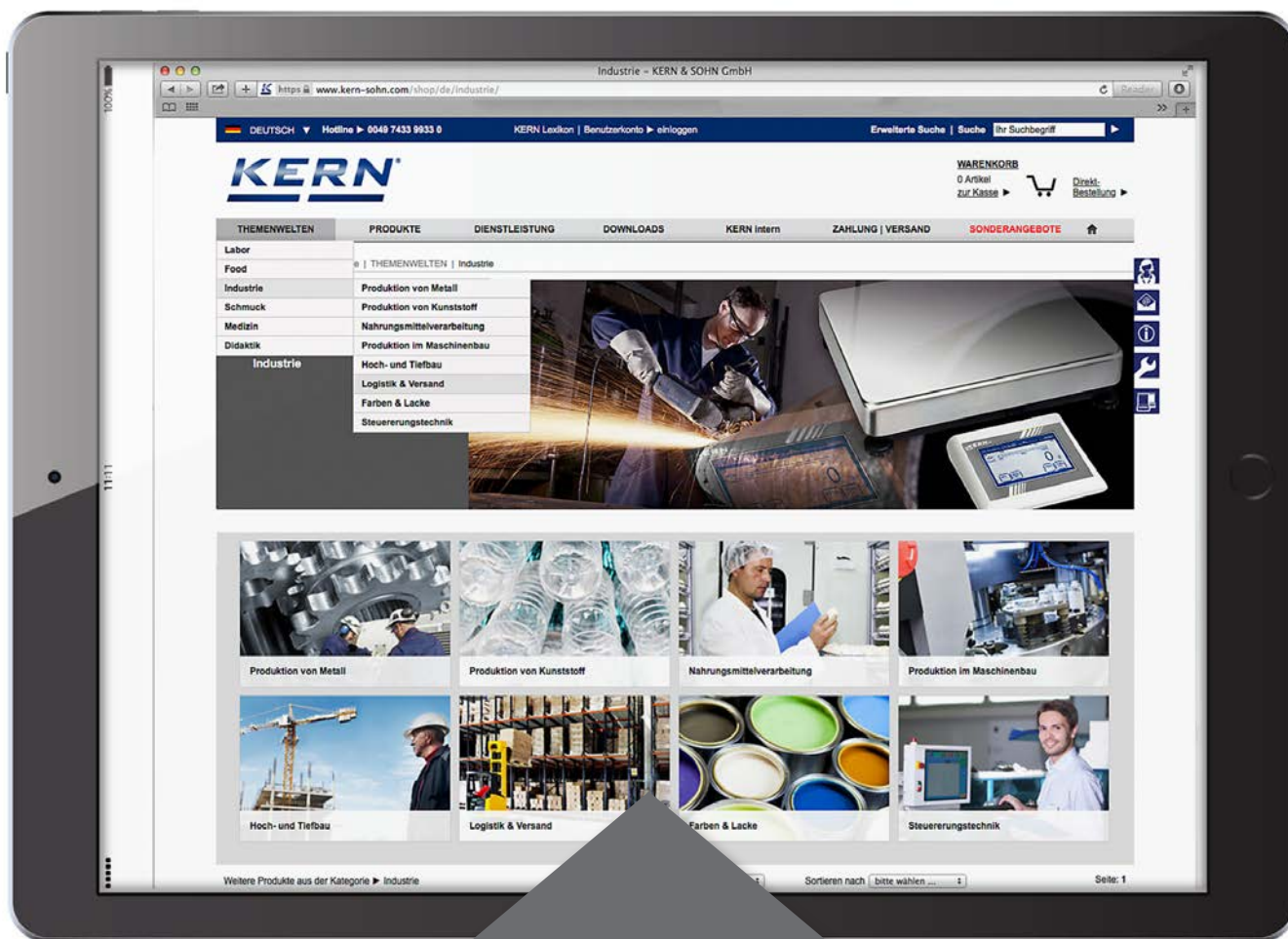
Quick-Finder Precision balances

Readout [d] g	Weighing range [Max] g	Model KERN	Price excl. of VAT ex works €	Page	Quality code QUALITY	 DAYS	 M	 CAL INT	 CAL EXT	 MEMORY	 RS 232	 PCS	 TOL	 BATT	 ACCU
For an explanation on the pictos, see front flap															
1	6000	PCB 6000-0	130,-	21	BA	1			●		●	●		●	○
1	6000	440-53N	180,-	22	AA	1			●		●	●		●	○
1	10000	PCD 10K-3	190,-	20	BA	1			●		●	●		●	○
1	12000	EMS 12K1	95,-	19	AA	1			●			●		●	
5	5200	EMB 5.2K5	55,-	17	AA	1			●					●	

● = standard ○ = option

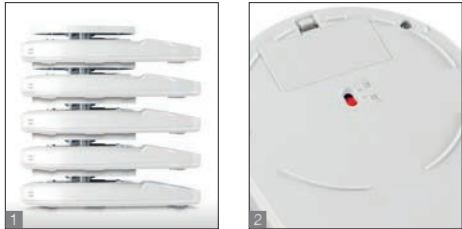
03

www.kern-sohn.com



Straight to the target!

Get straight to the right product. Use our new topic area search.
Here you will quickly find products which suit your particular
area of expertise.



The space miracle – stackable school balance for experiment-based teaching

Features

- **Simple and convenient 2-key operation**
- **Tare function** facilitates formulation work
- **Particularly flat design**
- **Secure and non-slip positioning** with rubber feet
- **1** Stackable for space-saving storage
- **2** A practical **transport safety lock** prevents the weighing technology from being overloaded when stored or during transportation

Technical data

- Large LCD display, digit height 15 mm
- Dimensions weighing surface, plastic, Ø 120 mm
- Overall dimensions W×D×H 145×205×45 mm
- Optional battery operation, 2×1.5 V AA, standard, operating time up to 35 h, AUTO-OFF function to preserve the battery
- Net weight approx. 0,5 kg/piece
- Permissible ambient temperature 5 °C/35 °C
- **Note:** The models are only delivered in a set of 5 units. i.e. the price given in the table refers to a delivery of 5 items. Cannot be delivered individually. The calibration prices given here refer to calibration of a single balance

Accessories

- **External universal mains adapter**, with universal input and optional input socket adapters for EU, GB, USA, YKA-03, € 31,-

STANDARD

CAL EXT

UNIT

BATT

DMS

1 DAY

OPTION

B

DAkkS

MULTI

+3 DAYS

Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Price set of 5 units excl. of VAT ex works €	Option	
						DAkkS Calibr. Certificate DKD KERN	1 Piece €
KERN							
EMB 200-1SS05	200	0,1	0,2	± 0,3	180,-	963-127	72,-
EMB 500-1SS05	500	0,1	0,2	± 0,3	200,-	963-127	72,-
EMB 2000-0SS05	2000	1	2	± 3	180,-	963-127	72,-
EMB 5000-0SS05	5000	1	2	± 3	200,-	963-127	72,-



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
- **1 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
- **2 Note: Anniversary Gnome edition** KERN EMB 500-1GN, including gnome booklet, for details see internet, only while stocks last

Technical data

- Large LCD display, digit height 15 mm
- Dimensions weighing surface, plastic, with conductive lacquer
 - A** \varnothing 82 mm
 - B** \varnothing 105 mm
 - C** \varnothing 150 mm
- Weighing plate material
 - A** plastic, with conductive lacquer
 - B, C** plastic
- Net weight approx. 0,75 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- **3 Stainless steel weighing plate**, only for models with weighing plate size **B**, KERN EMB-A02, € 26,-
- **4 Stack frame** for space-saving storage of precision balances from the KERN EMB range, scope of delivery 5 pieces, for models with housing dimensions W×D×H 170×240×39 mm: KERN EMB-A07, € 70,- 170×240×54 mm: KERN EMB-A09, € 85,-
- **External universal mains adapter**, with universal input and optional input socket adapters for EU, GB, USA, YKA-03, € 31,-

STANDARD



OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Dimensions housing W×D×H mm	Weighing plate	Price € excl. of VAT ex works €	Option	
								DAKKS Calibr. Certificate	
KERN								DKD KERN	€
EMB 100-3	100	0,001	0,001	± 0,005	170×240×54	A	195,-	963-127	72,-
EMB 200-3	200	0,001	0,001	± 0,005	170×240×54	A	210,-	963-127	72,-
EMB 200-2	200	0,01	0,01	± 0,02	170×240×39	B	125,-	963-127	72,-
EMB 600-2	600	0,01	0,01	± 0,03	170×240×39	B	160,-	963-127	72,-
EMB 1000-2	1000	0,01	0,01	± 0,05	170×240×54	C	195,-	963-127	72,-
EMB 2000-2	2000	0,01	0,01	± 0,05	170×240×54	C	205,-	963-127	72,-
EMB 500-1	500	0,1	0,1	± 0,2	170×240×39	C	57,-	963-127	72,-
EMB 500-1BE *	500	0,1	0,1	± 0,2	170×240×39	C	57,-	963-127	72,-
EMB 1200-1	1200	0,1	0,1	± 0,3	170×240×39	C	80,-	963-127	72,-
EMB 3000-1	3000	0,1	0,1	± 0,3	170×240×39	C	125,-	963-127	72,-
EMB 6000-1	6000	0,1	0,1	± 0,3	170×240×39	C	160,-	963-128	88,-
EMB 2200-0	2200	1	1	± 2	170×240×39	C	60,-	963-127	72,-
EMB 5.2K1	5200	1	1	± 3	170×240×39	C	60,-	963-128	88,-
EMB 5.2K5	5200	5	5	± 10	170×240×39	C	55,-	963-128	88,-

* housing colour black, see KERN EMB 500-1GN



School balance with integrated density determination function

Features

- **Density determination made easy!**
Thanks to the self-explanatory, graphic-assisted control panel, the density of solids and liquids can be determined in seconds, making them ideal for use in schools and universities
- **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/plummets in air
 - 4 Weighing of samples/plummets in liquid. The density will be shown on the display right away
- **Particularly flat design**

- **Hook for underfloor weighing** standard
- **Ready for use:** Batteries included, 9 V block, operating time up to 12 h, AUTO-OFF function to preserve the battery
- **Note: Balance and appropriate set for density determination should be ordered at the same time, see accessories**

Technical data

- Large LCD display, digit height 15 mm
- Dimensions weighing surface, plastic
 - A Ø 82 mm
 - B Ø 150 mm
- Overall dimensions W×D×H 175×245×54 mm
- Net weight approx. 0,85 kg
- Permissible ambient temperature 5 °C/35 °C
- **Now also with carat weighing unit:**
EMB 200-3V: 1000 ct/0,005 ct
EMB 2000-2V: 10000 ct/0,05 ct

Accessories

- KERN EMB 200-3V:**
- **5 Set for density determination** of liquids and solids with density $\leq/\geq 1$.
Scope of delivery: Weighing plate, beaker (H×Ø 71×51 mm), sample holder, plummet, KERN YDB-01, **€ 215,-**
 - **DAkKS-Calibration certificate** for the plummet (20 g), KERN 962-335V, **€ 143,-**

- KERN EMB 2000-2V:**
- **6 Set for density determination** of liquids and solids with density $\leq/\geq 1$.
Scope of delivery: Weighing plate, beaker (H×Ø 135×100 mm), sample holder, plummet, KERN YDB-02, **€ 330,-**
 - **DAkKS-Calibration certificate** for the plummet (200 g), KERN 962-338V, **€ 141,-**

STANDARD

CAL EXT

RS 232

UNIT

UNDER

BATT

MULTI

DMS

1 DAY

OPTION

DAkKS

+3 DAYS

Model	Weighing range	Readout	Reproducibility	Linearity	Weighing plate	Price € excl. of VAT ex works €	Option	
							DAkKS Calibr. Certificate	
KERN	[Max] g	[d] g	g	g			DKD KERN	€
EMB 200-3V	200	0,001	0,002	± 0,005	A	250,-	963-127	72,-
EMB 2000-2V	2000	0,01	0,02	± 0,05	B	250,-	963-127	72,-



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, with conductive lacquer**
- **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*
- **1 Draught shield** standard for models with weighing plate size **A**, weighing space W×D×H 145×145×65 mm

Technical data

- LCD display, digit height 25 mm
- Dimensions weighing surface
 - A** Ø 105 mm
 - B** W×D 175×190 mm, see larger picture
- Weighing plate material
 - A** plastic, with conductive lacquer
 - B** plastic
- Overall dimensions W×D×H 200×280×63 mm (without draught shield)
- Optional battery operation, 9 V block not included, operating time up to 40 h
- External mains adapter standard
- Net weight approx. 1,4 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- **2 Stainless steel weighing plate**, only for models with weighing plate size **B**, KERN EMS-A01, € 30,-

STANDARD

CAL EXT

PCS

RECIPE

PERCENT

UNIT

BATT

MULTI

DMS

1 DAY

OPTION

DAKKS

+3 DAYS

Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Weighing plate	Quality code	Price € excl. of VAT ex works €	Option	
								DAKKS Calibr. Certificate	
KERN						QUALITY		DKD KERN	€
EMS 300-3	300	0,001	0,002	± 0,005	A	AA	260,-	963-127	72,-
EMS 3000-2	3000	0,01	0,02	± 0,05	B	BA	240,-	963-127	72,-
EMS 6K0.1	6000	0,1	0,1	± 0,3	B	AA	160,-	963-128	88,-
EMS 12K0.1	12000	0,1	0,1	± 0,3	B	BA	205,-	963-128	88,-
EMS 6K1	6000	1	1	± 3	B	AA	70,-	963-128	88,-
EMS 12K1	12000	1	1	± 3	B	AA	95,-	963-128	88,-



High-resolution precision balance with removable display for maximum flexibility

Features

- Laboratory balance with separate platform: Ideal when working in the 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
- **1 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
 - B** W×D 160×160 mm
- Weighing plate material
 - A** plastic, with conductive lacquer
 - B** stainless steel
- Dimensions of display device W×D×H 140×46×75 mm
- Optional battery operation, 9 V block not included, operating time up to 12 h, AUTO-OFF function to preserve the battery
- Overall dimensions W×D×H 165×280×75 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, **€ 40,-**
- **2 Stand** to elevate display device, height of stand approx. 250 mm, KERN PCD-A03, **€ 50,-**
- **Rechargeable battery pack internal**, operating time up to 24 h without backlight, charging time approx. 10 h,
- **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, **€ 85,-**, KERN PCD-A04, **€ 50,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- **Individual header data**: the free software can be used to print 4 header lines on the printout when using printers 911-013, YKN-01, YKB-01N, YKE-01 and YKC-01 (in combination with YKI-02)
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Weighing plate	Quality code 	Price € excl. of VAT ex works €	Option	
								DAkKS Calibr. Certificate	
KERN								DKD KERN	€
PCD 250-3	250	0,001	0,002	± 0,005	A	AA	305,-	963-127	72,-
PCD 300-3	350	0,001	0,002	± 0,005	A	AA	350,-	963-127	72,-
PCD 2500-2	2500	0,01	0,02	± 0,05	B	BA	295,-	963-127	72,-
PCD 3000-2	3500	0,01	0,02	± 0,05	B	BA	350,-	963-127	72,-
PCD 6K-4	6000	0,1	0,1	± 0,3	B	BA	260,-	963-128	88,-
PCD 10K0.1	10000	0,1	0,1	± 0,3	B	BA	240,-	963-128	88,-
PCD 10K-3	10000	1	1	± 3	B	BA	190,-	963-128	88,-



The standard in the laboratory

Features

- **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
- 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
- **Plus/minus weighing procedures**
- **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

Technical data

- Backlit LCD display, digit height 15 mm
- Dimensions weighing surface
 - A** \varnothing 81 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 W×D×H 163×245×79 mm (without draught shield)
- Optional battery operation, 9 V block not included, operating time up to 20 h
- AUTO-OFF function to preserve the battery
- Permissible ambient temperature 5 °C/35 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, for models with weighing plate size
 - A** KERN PCB-A02S05, € 40,-
 - B** KERN PCB-A03S05, € 40,-
 - C** KERN PCB-A04S05, € 40,-
 - D** KERN PCB-A05S05, € 40,-
- **Rechargeable battery pack internal**, operating time up to 48 h without backlight, charging time approx. 8 h, KERN PCB-A01, € 75,-
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, € 290,-
- **Balance Connection Software**, KERN SCD-4.0, € 150,-
- **Individual header data**: the free software SHM-01 can be used to print 4 header lines on the printout when using printers 911-013, YKN-01, YKB-01N, YKE-01 and YKC-01 (in combination with YKI-02)
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Weighing plate	Quality code	Price € excl. of VAT ex works €	Option	
								DAkKS Calibr. Certificate	
KERN						QUALITY		DKD KERN	€
PCB 100-3	100	0,001	0,001	± 0,003	A	AA	265,-	963-127	72,-
PCB 250-3	250	0,001	0,001	± 0,005	A	AA	290,-	963-127	72,-
PCB 350-3	350	0,001	0,002	± 0,005	A	AA	300,-	963-127	72,-
PCB 200-2	200	0,01	0,01	± 0,02	B	AA	230,-	963-127	72,-
PCB 1000-2	1000	0,01	0,01	± 0,03	C	AA	255,-	963-127	72,-
PCB 2500-2	2500	0,01	0,01	± 0,05	C	BA	290,-	963-127	72,-
PCB 3500-2	3500	0,01	0,02	± 0,05	C	AA	300,-	963-127	72,-
PCB 1000-1	1000	0,1	0,1	± 0,2	C	AA	185,-	963-127	72,-
PCB 2000-1	2000	0,1	0,1	± 0,2	C	AA	215,-	963-127	72,-
PCB 6000-1	6000	0,1	0,1	± 0,3	D	BA	240,-	963-128	88,-
PCB 10000-1	10000	0,1	0,1	± 0,3	D	BA	245,-	963-128	88,-
PCB 6000-0	6000	1	1	± 2	D	BA	130,-	963-128	88,-



The classic balance in the laboratory

Features

- **Compact size**, practical for small spaces
- **Percentage determination**: makes it possible to store a given weight value (100 %) and to determine deviations from this target value
- **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

Technical data

- Backlit LCD display, digit height 15 mm
- Dimensions weighing surface
 - A** \varnothing 81 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 W×D×H 165×230×80 mm (without draught shield)
- Optional battery operation, 9 V block, not included, operating time up to 20 h, AUTO-OFF function to preserve the battery
- Net weight approx. 0,95 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, for models with weighing plate size
 - A** KERN 440-210-002S05, **€ 40,-**
 - B** KERN 440-330-002S05, **€ 40,-**
 - C** KERN 440-450-002S05, **€ 40,-**
 - D** KERN 440-530-002S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 20 h without backlight, charging time approx. 10 h, KERN FCB-A01, **€ 50,-**
- **Hook for underfloor weighing**, KERN 440-A01, **€ 25,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- **Individual header data**: the free software SHM-01 can be used to print 4 header lines on the printout when using printers 911-013, YKN-01, YKB-01N, YKE-01 and YKC-01 (in combination with YKI-02)
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

CAL EXT

RS 232

GLP

PC

RECIPE

PERCENT

UNIT

MOVE

UNDER

BATT

MULTI

DMS

1 DAY

OPTION

ACCU

DAKKS

+3 DAYS

Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Weighing plate	Price € excl. of VAT ex works €	Option	
							DAkKS Calibr. Certificate	
							DKD KERN	€
KERN 440-21A	60	0,001	0,001	± 0,003	A	350,-	963-127	72,-
440-33N	200	0,01	0,01	± 0,02	B	290,-	963-127	72,-
440-35N	400	0,01	0,01	± 0,03	B	330,-	963-127	72,-
440-35A	600	0,01	0,01	± 0,03	B	365,-	963-127	72,-
440-43N	400	0,1	0,1	± 0,2	C	185,-	963-127	72,-
440-45N	1000	0,1	0,1	± 0,2	C	245,-	963-127	72,-
440-47N	2000	0,1	0,1	± 0,2	C	270,-	963-127	72,-
440-49N	4000	0,1	0,1	± 0,3	C	330,-	963-127	72,-
440-49A	6000	0,1	0,1	± 0,3	C	365,-	963-128	88,-
440-51N	4000	1	1	± 2	C	160,-	963-127	72,-
440-53N	6000	1	1	± 2	C	180,-	963-128	88,-

FACE
LIFT

B A
QUALITY



03

Quick-displaying precision balance, now with larger housing for more secure footing

Features

- **Easy to use:** All primary functions have their own key on the keypad
- **Compact size,** practical for small spaces
- **Capacity display:** A bar 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** and **B**, Weighing space W×D×H 158×143×64 mm
- **Protective working cover** included with delivery
- **Note:** For further models with EC-Type Approval [M], see the internet

Technical data

- Backlit LCD display, digit height 15 mm
- Dimensions weighing surface, stainless steel
 - A** Ø 80 mm
 - B** Ø 120 mm
 - C** W×D 155×145 mm, see larger picture
- Overall dimensions W×D×H 315×210×156 mm (without draught shield)
- Net weight approx. 2,0 kg
- Permissible ambient temperature 15 °C/30 °C

Accessories

- **Protective working cover,** scope of delivery: 5 items, KERN EWJ-A04S05, **€ 40,-**
- **1 Separate second display,** ideal for training and demonstration purposes in laboratories or industry, not permitted for direct sales to the public, KERN PFB-A08, **€ 115,-**
- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase, Bluetooth 2.0: KERN PFB-A10, **€ 95,-** Bluetooth 4.0: KERN PFB-A11, **€ 125,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

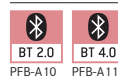
STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Weighing plate	Price € excl. of VAT ex works €	Option DAkkS Calibr. Certificate	
							DKD KERN	€
KERN								
PFB 120-3	120	0,001	0,001	± 0,003	A	280,-	963-127	72,-
PFB 200-3	200	0,001	0,002	± 0,005	A	290,-	963-127	72,-
PFB 300-3	300	0,001	0,002	± 0,005	A	320,-	963-127	72,-
PFB 1200-2	1200	0,01	0,01	± 0,03	B	245,-	963-127	72,-
PFB 2000-2	2000	0,01	0,02	± 0,05	B	255,-	963-127	72,-
PFB 3000-2	3000	0,01	0,02	± 0,05	B	280,-	963-127	72,-
PFB 6000-2	6000	0,05	0,05	± 0,15	C	250,-	963-128	88,-
PFB 6000-1	6000	0,1	0,1	± 0,3	C	220,-	963-128	88,-



03



High-resolution precision balance with high resolution and large range of functions

Features

- With its **exceptionally large weighing ranges and readouts**, this range offers a large pool of products to cover the most varied applications within the laboratory environment. They are therefore particularly suitable for heavy tare containers or large samples
- **Stable weighing results** thanks to the individual temperature compensation of the strain gauge measuring system which is set at the factory. It is therefore especially suitable for use in areas where there are temperature fluctuations
- The **measuring system's exceptionally high resolution** of 420.000 points ensures the highest level of accuracy with large weighing ranges. Almost unbeatable in this price category
- **Compact size**, practical for small spaces
- **Totalising** of weights
- **Draught shield** standard for models with weighing plate size **A**, weighing space $\varnothing \times H$ 125×70 mm

Technical data

- Backlit LCD display, digit height 15 mm
- Dimensions weighing surface, stainless steel
 - A** \varnothing 80 mm
 - B** \varnothing 135 mm, see larger picture
- Dimensions housing W×D×H 185×250×80 mm (without draft shield)
- Net weight approx. 1,2 kg
- Permissible ambient temperature 10 °C/30 °C

Accessories

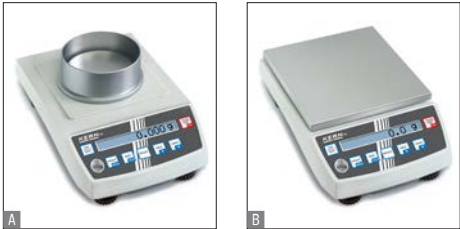
- **Rechargeable battery pack internal**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN PLE-A06, **€ 35,-**
- **Set for density determination** of liquids and solids with density $\leq / \geq 1$, for models with [d] = 0,001 g, KERN ALT-A02, **€ 830,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

OPTION

Model	Weighing range	Readout	Reproducibility	Linearity	Weighing plate	Price € excl. of VAT ex works €	Option	
							DAkKS Calibr. Certificate	
KERN	[Max] g	[d] g	g	g			DKD KERN	€
PLE 420-3N	420	0,001	0,002	± 0,004	A	450,-	963-127	72,-
PLE 4200-2N	4200	0,01	0,02	± 0,04	B	450,-	963-127	72,-

ONLY WHILE STOCKS LAST!



Compact precision balance with large weighing range

Features

- Thanks to the **many typical laboratory functions**, such as, for example, recipe function, percentage determination, GLP record keeping, combined with the high level of precision, the KERN KB-N is a reliable partner for day-to-day work in the laboratory
- **User guidance step by step** on display by Yes/No dialogue
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar
- **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

Technical data

- Backlit LCD display, digit height 9 mm
- Dimensions weighing surface
 - A** \varnothing 81 mm, plastic, with conductive lacquer
 - B** W×D 130×130 mm, stainless steel
 - C** W×D 150×170 mm, stainless steel, see larger picture
- Overall dimensions W×D×H 167×250×85 mm (without draught shield)
- Net weight approx. 1,0 kg
- Permissible ambient temperature 10 °C/40 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, for models with weighing plate size
 - A** KERN PCB-A02S05, **€ 40,-**
 - B** KERN PCB-A04S05, **€ 40,-**
 - C** KERN PCB-A05S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KB-A01N, **€ 50,-**
- **Rechargeable battery pack external**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

OPTION

Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Weighing plate	Quality code	Price € excl. of VAT ex works €	Option	
								DAkKS Calibr. Certificate	
KERN									€
KB 120-3N	120	0,001	0,001	± 0,003	A	AA	290,-	963-127	72,-
KB 240-3N	240	0,001	0,001	± 0,003	A	AA	300,-	963-127	72,-
KB 360-3N	360	0,001	0,002	± 0,005	A	AA	310,-	963-127	72,-
KB 650-2N	650	0,01	0,01	± 0,03	B	BA	270,-	963-127	72,-
KB 1200-2N	1200	0,01	0,01	± 0,03	B	BA	280,-	963-127	72,-
KB 2000-2N	2000	0,01	0,01	± 0,03	B	BA	280,-	963-127	72,-
KB 2400-2N	2400	0,01	0,01	± 0,03	B	BA	290,-	963-127	72,-
KB 3600-2N	3600	0,01	0,02	± 0,05	B	BA	310,-	963-127	72,-
KB 6500-1N	6500	0,1	0,1	± 0,3	C	BA	260,-	963-128	88,-
KB 10K0.05N	10000	0,05	0,05	± 0,15	C	BA	280,-	963-128	88,-
KB 10000-1N	10000	0,1	0,1	± 0,3	C	BA	270,-	963-128	88,-



High-quality precision balance with automatic internal adjustment, also with EC type approval [M]

Features

- **Easy to use:** 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 bar lights up to show how much of the weighing range is still available
- **USB interface** for transferring weighing data to the PC, printer, USB sticks etc.
- **Draft shield** standard on models EWJ 300-3, EWJ 600-2SM, EWJ 600-2M, weighing space W×D×H 145×160×80 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 175×155×217 mm
- **Protective working cover** included with delivery

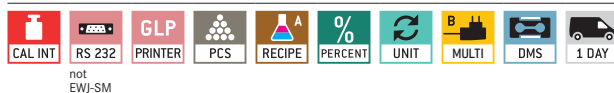
Technical data

- Large backlit LCD display, digit height 16,5 mm
- Dimensions weighing surface, stainless steel
 - A Ø 80 mm
 - B Ø 135 mm, see larger picture
 - C W×D 155×145 mm
- Overall dimensions W×D×H 220×315×90 mm (without draught shield)
- Permissible ambient temperature
 - KERN EWJ: 15 °C/35 °C
 - KERN EWJ-M: 15 °C/30 °C

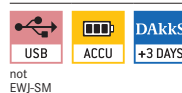
Accessories

- **Protective working cover,** scope of delivery: 5 items, KERN EWJ-A04S05, **€ 40,-**
- **Rechargeable battery pack internal,** operating time up to 15 h without backlight, charging time approx. 4 h, KERN KFB-A01, **€ 35,-**
- **USB interface kit** for bi-directional data exchange between balance/moisture analyser and computer. Scope of delivery: USB cable, driver, Software BalanceConnection, KERN DBS-A02, **€ 290,-**
- **RS-232/WiFi adapter** for wireless connection to networks and WLAN capable devices, such as tablets, laptops or smartphones, KERN YKI-03, **€ 750,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Price € excl. of VAT ex works €	Option			
								Verification		DAkkS Calibr. Certificate	
KERN								M KERN	€	DKD KERN	€
EWJ 300-3	300	0,001	-	-	± 0,005	A	450,-	-	-	963-127	72,-
EWJ 300-3H	300	0,001	-	-	± 0,005	A	490,-	-	-	963-127	72,-
EWJ 3000-2	3000	0,01	-	-	± 0,05	B	430,-	-	-	963-127	72,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
EWJ 600-2SM	600	0,01	0,1	0,5	± 0,03	B	350,-	965-216	66,-	963-127	72,-
EWJ 600-2M	600	0,01	0,1	0,5	± 0,03	B	360,-	965-216	66,-	963-127	72,-
EWJ 6000-1SM	6000	0,1	1	5	± 0,3	C	340,-	965-217	77,-	963-128	88,-
EWJ 6000-1M	6000	0,1	1	5	± 0,3	C	350,-	965-217	77,-	963-128	88,-

Price reduction



03

All-rounder e.g. as precision balance in the laboratory or in harsh industrial applications

Features

- Thanks to the **many typical laboratory functions**, such as, for example, recipe function, percentage determination, GLP record keeping, combined with the high level of precision, the KERN 572 · 573 is a reliable partner for day-to-day work in the laboratory
- **The robust version**, typical industrial functions, such as piece-counting, vibrationfree weighing and the large weighing ranges also make these balances ideal for all industrial applications, where a high level of precision is required

- **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
- **Ring-shaped draught shield** standard, only for models with weighing plate size **A**, weighing space $\varnothing \times H$ 157×43 mm
- **Loop and hook for underfloor weighing**, standard for models with $[d] \geq 0,01$ g
- **Protective working cover** included with delivery

Technical data

- Large backlit LCD display, digit height 18 mm
- Dimensions weighing surface, stainless steel
 - A** \varnothing 106 mm
 - B** \varnothing 150 mm
 - C** W×D 160×200 mm
- Overall dimensions W×D×H 180×310×85 mm
- Permissible ambient temperature 10 °C/40 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN 572-A02S05, **€ 40,-**
- **Rechargeable battery pack external**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- **Loop for underfloor weighing**, for models with $d \geq 0,01$ g KERN 572-A03, **€ 25,-**
- **1 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, for models with weighing plate size **A**, KERN 572-A05, **€ 230,-**

STANDARD



OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Weighing plate	Price € excl. of VAT ex works €	Option DAkKS Calibr. Certificate	
							DKD KERN	€
572-30	240	0,001	0,001	± 0,003	A	520,-	963-127	72,-
572-31	300	0,001	0,002	± 0,005	A	530,-	963-127	72,-
572-32	420	0,001	0,002	± 0,005	A	540,-	963-127	72,-
573-34	650	0,01	0,01	± 0,03	B	480,-	963-127	72,-
572-33	1600	0,01	0,01	± 0,03	B	490,-	963-127	72,-
572-35	2400	0,01	0,01	± 0,03	B	500,-	963-127	72,-
572-37	3000	0,01	0,02	± 0,05	B	510,-	963-127	72,-
572-39	4200	0,01	0,02	± 0,05	B	520,-	963-127	72,-
572-45	12000	0,05	0,05	± 0,15	C	490,-	963-128	88,-
572-55	20000	0,05	0,1	± 0,25	C	520,-	963-128	88,-
573-46	6500	0,1	0,1	± 0,3	C	470,-	963-128	88,-
572-43	10000	0,1	0,1	± 0,3	C	480,-	963-128	88,-
572-49	16000	0,1	0,1	± 0,3	C	490,-	963-128	88,-
572-57	24000	0,1	0,1	± 0,3	C	500,-	963-128	88,-



Range of precision balances with enormous weighing ranges – ideal for heavy tare containers or large samples

Features

- **A** KERN PLJ 2000-3A: **High-quality milligram balance with enormous weighing range up to 2100 g** – ideal for large samples or heavy tare containers
- **Ergonomically optimised keypad** for left and righthanded users
- KERN PLJ: **Automatic internal adjustment**, guarantees high degree of accuracy and makes the balance independent of its location of use

- Ideal for mobile applications which require verification, such as ambulatory gold and jewellery purchasing
- KERN PLS: **Adjusting program CAL** for quick setting of the balance accuracy, external test weights at an additional price, see *Test weights*
- **Draught shield** standard for models with weighing plate size **B**, weighing space $\varnothing \times H$ 60×150 mm
- **Protective working cover** included with delivery

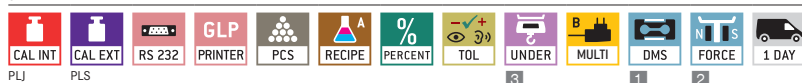
Technical data

- Backlit LCD display, digit height 17 mm
- Dimensions weighing surface, stainless steel
 - A** \varnothing 80 mm
 - B** \varnothing 110 mm
 - C** \varnothing 160 mm, see larger picture
 - D** W×D 200×175 mm
- **1** KERN PLS/PLJ-F: Strain gauge
- **2** KERN PLS/PLJ-A: Force compensation
- Permissible ambient temperature
KERN PLS, PLJ: 5 °C/35 °C
KERN PLJ-M: 15 °C/30 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN PLJ-A01S05, **€ 40,-**
- **Hook for underfloor weighing**, KERN PLJ-A02, **€ 30,-**
- **Set for density determination** of liquids and solids with density $\leq/\geq 1$ for models with [d] = 0,001 g, KERN ALT-A02, **€ 830,-**
[d] = 0,01 g, KERN PLT-A01, **€ 830,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Quality code	Price € excl. of VAT ex works €	Option			
									Verification		DAKKS Calibr. Certificate	
KERN							QUALITY		MU KERN	€	DKD KERN	€
PLS 420-3F	420	0,001	-	-	± 0,004	B	BA	590,-	-	-	963-127	72,-
PLS 720-3A 3	720	0,001	-	-	± 0,002	B	BC	840,- ↓	-	-	963-127	72,-
PLS 1200-3A 3	1200	0,001	-	-	± 0,003	B	BC	870,-	-	-	963-127	72,-
PLS 4200-2F 3	4200	0,01	-	-	± 0,04	C	BA	590,-	-	-	963-127	72,-
PLS 6200-2A 3	6200	0,01	-	-	± 0,03	C	BC	870,-	-	-	963-128	88,-
PLS 8000-2A 3	8200	0,01	-	-	± 0,04	C	BC	1050,-	-	-	963-128	88,-
PLS 20000-1F 3	20000	0,1	-	-	± 0,4	D	BA	570,- ↓	-	-	963-128	88,-
PLJ 420-3F	420	0,001	-	-	± 0,003	B	BA	700,-	-	-	963-127	72,-
PLJ 720-3A 3	720	0,001	-	-	± 0,002	B	CC	980,- ↓	-	-	963-127	72,-
PLJ 1200-3A 3	1200	0,001	-	-	± 0,003	B	CC	1000,- ↓	-	-	963-127	72,-
PLJ 2000-3A 3	2100	0,001	-	-	± 0,004	A	CC	1650,- ↓	-	-	963-127	72,-
PLJ 3000-2FM*	3100	0,01	-	-	± 0,03	C	BA	630,-	-	-	963-127	72,-
PLJ 4200-2F	4200	0,01	-	-	± 0,04	C	BA	690,-	-	-	963-127	72,-
PLJ 6200-2A 3	6200	0,01	-	-	± 0,03	C	CC	990,-	-	-	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.												
PLJ 720-3AM	720	0,001	0,01	0,02	± 0,002	B	CC	990,-	965-216	66,-	963-127	72,-
PLJ 6200-2AM	6200	0,01	0,1	0,5	± 0,03	C	CC	1000,- ↓	965-217	77,-	963-128	88,-

! * ONLY WHILE STOCKS LAST!

↓ Price reduction



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

Features

- KERN PNJ: **Automatic internal adjustment**, guarantees high degree of accuracy and makes the balance independent of its location of use. Ideal for mobile applications which require verification, such as ambulatory gold and jewellery purchasing
- KERN PNS: **Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- **High-quality tuning fork measuring system** for steady weight values and continuous weighing
- **Capacity display:** A bar lights up to show how much of the weighing range is still available
- **Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- **Compact size**, practical for small spaces

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

Technical data

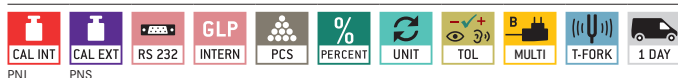
- Large LCD display, digit height 16,5 mm
- Dimensions weighing surface, stainless steel
A Ø 140 mm
B W×D 190×190 mm, see larger picture
- Overall dimensions W×D×H, without draught shield
A 202×293×266 mm
B 196×293×89 mm
- Net weight
A approx. 2,2 kg
B approx. 2,6 kg

- Permissible ambient temperature
5 °C/40 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN PNJ-A01S05, **€ 40,-**
- **RS-232/Bluetooth adapter** to connect to Bluetooth capable devices, such as Bluetooth printers, tablets, laptops, smartphones, etc., KERN YKI-02, **€ 220,-**
- **RS-232/WiFi adapter** for wireless connection to networks and WLAN capable devices, such as tablets, laptops or smartphones, KERN YKI-03, **€ 750,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- **Precious stones plate**, aluminium with practical spout, W×D×H 83×66×23 mm, KERN AEJ-A05, **€ 40,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Price € excl. of VAT ex works €	Option			
								Verification	DAkkS Calibr.	Certificate	
KERN									€		€
PNS 600-3	620	0,001	-	-	± 0,004	A	620,-	-	-	963-127	72,-
PNS 3000-2	3200	0,01	-	-	± 0,02	B	580,-	-	-	963-127	72,-
PNS 12000-1	12000	0,1	-	-	± 0,2	B	570,-	-	-	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
PNJ 600-3M	620	0,001	0,01	0,02	± 0,004	A	730,-	965-216	66,-	963-127	72,-
PNJ 3000-2M	3200	0,01	0,1	0,5	± 0,02	B	705,-	965-216	66,-	963-127	72,-
PNJ 12000-1M	12000	0,1	1	5	± 0,2	B	705,-	965-217	77,-	963-128	88,-

Price reduction



The classic balance with robust tuning fork measuring system

Features

- **1 KERN EG-N: Automatic 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
- KERN EW-N: **Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- **Stable temperature behaviour**
- **Short stabilisation time**
- **Shock proof construction**
- **High corner load performance**
- **Capacity display:** A bar lights up to show how much of the weighing range is still available
- **GLP/ISO record keeping** of weight values
- **Totalising** of pieces when counting

- **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, without draught shield
 - A, B** 182×235×75 mm
 - C** 192×275×87 mm
- Net weight approx. 1,4 kg

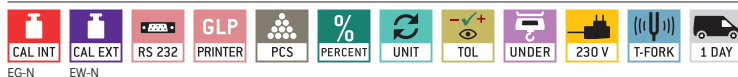


- Permissible ambient temperature 10 °C/30 °C

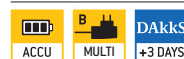
Accessories

- **Protective working cover**, scope of delivery: 5 items, for models with weighing plate size
 - A, B** KERN EG-A05S05, € 40,-
 - C** KERN EG-A09S05, € 40,-
- **Rechargeable battery pack internal**, operating time up to 32 h without backlight, charging time approx. 12 h, for models with weighing plate size
 - A, B** KERN EG-A04, € 110,-
 - C** KERN EG-A06, € 110,-
- **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, for models with weighing plate size **A**, KERN EG-A03, € 235,-
- **Loop for underfloor weighing**, for models with weighing plate size
 - A, B** KERN EG-A07, € 40,-
 - C** KERN EG-A08, € 40,-
- **Precious stones plate**, aluminium with practical spout, W×D×H 83×66×23 mm, KERN AEJ-A05, € 40,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Quality code	Price € excl. of VAT ex works €	Option			
									Verification		DAkkS Calibr. Certificate	
									M KERN	€	DKD KERN	€
KERN												
EW 220-3NM	220	0,001	-	-	± 0,002	A	AB	620,-	-	-	963-127	72,-
EW 420-3NM	420	0,001	-	-	± 0,003	A	AB	690,-	-	-	963-127	72,-
EW 620-3NM	620	0,001	-	-	± 0,003	A	AB	770,-	-	-	963-127	72,-
EW 820-2NM	820	0,01	-	-	± 0,01	B	BB	540,-	-	-	963-127	72,-
EW 2200-2NM	2200	0,01	-	-	± 0,01	C	BB	660,-	-	-	963-127	72,-
EW 4200-2NM	4200	0,01	-	-	± 0,02	C	BB	760,-	-	-	963-127	72,-
EW 6200-2NM	6200	0,01	-	-	± 0,03	C	BB	810,-	-	-	963-128	88,-
EW 12000-1NM	12000	0,1	-	-	± 0,2	C	BB	630,-	-	-	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.												
EG 220-3NM	220	0,001	0,01	0,02	± 0,002	A	BB	760,-	965-216	66,-	963-127	72,-
EG 420-3NM	420	0,001	0,01	0,02	± 0,003	A	BB	830,-	965-216	66,-	963-127	72,-
EG 620-3NM	620	0,001	0,01	0,1	± 0,004	A	BB	930,-	965-201	110,-	963-127	72,-
EG 2200-2NM	2200	0,01	0,1	0,5	± 0,01	C	BB	820,-	965-216	66,-	963-127	72,-
EG 4200-2NM	4200	0,01	0,1	0,5	± 0,02	C	BB	880,-	965-216	66,-	963-127	72,-

Price reduction



03

Multifunctional laboratory balance with single-cell weighing system and EC type approval [M]

Features

- KERN PBJ: **Automatic 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
- KERN PBS: **Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- **Metal housing:** robust and sturdy
- **Dosage aid:** High-stability mode and other filter settings can be selected
- **Weighing with tolerance range (checkweighing):** a visual signal helps with portioning, dispensing or grading
- **Totalising** of weights
- **Identification number:** 4 digits, printed on calibration protocol freely programmable
- **Automatic data output to the PC/printer** each time the balance is steady

- **1 Draught shield** standard for models with [d] = 0,001 g, weighing space W×D×H 180×193×87 mm
- **Protective working cover** included with delivery

Technical data

- Large backlit LCD display, digit height 14 mm
- Dimensions weighing surface, stainless steel
 - A W×D 108×105 mm
 - B W×D 180×190 mm, see larger picture
- Overall dimensions W×D×H 209×322×78 mm (without draught shield)
- Net weight approx. 3,2 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, € 40,-
 - B KERN PBS-A02S05, € 40,-
- **2 Set for density determination** of liquids and solids with density ≤/≥ 1, for models with weighing plate size
 - A KERN PBS-A04, € 1600,-
 - B KERN PBS-A03, € 1600,-
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, € 290,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

- 3 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 sec under laboratory conditions
 - **Shock proof construction**
 - **High corner load performance**

STANDARD

CAL INT

CAL EXT

RS 232

GLP

INTERN

PCS

RECIPE

PERCENT

UNIT

TOL

MOVE

UNDER

MULTI

SC TECH

1 DAY

PBJ PBS

OPTION

DAkKS

+3 DAYS

FACTORY

M

+3 DAYS

PBJ

Model	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Quality code	Price € excl. of VAT ex works €	Option			
									Verification		DAkKS Calibr. Certificate	
									M KERN	€	DKD KERN	€
KERN							QUALITY					
PBS 620-3M	620	0,001	-	-	± 0,002	A	BC	1370,-	-	-	963-127	72,-
PBS 4200-2M	4200	0,01	-	-	± 0,02	B	BC	1160,-	-	-	963-127	72,-
PBS 6200-2M	6200	0,01	-	-	± 0,02	B	BC	1390,-	-	-	963-128	88,-
Note: For applications that require verification, please order verificati on at the same time, initial verification at a later date is not possible.												
Verification at the factory, we need to know the full address of the location of use.												
PBJ 620-3M	620	0,001	0,01	0,1	± 0,002	A	BC	1610,-	965-201	110,-	963-127	72,-
PBJ 4200-2M	4200	0,01	0,1	0,5	± 0,02	B	CC	1430,-	965-216	66,-	963-127	72,-
PBJ 6200-2M	6200	0,01	0,1	1	± 0,02	B	CC	1730,-	965-202	110,-	963-128	88,-
PBJ 8200-1M	8200	0,1	1	5	± 0,2	B	CC	1420,-	965-217	77,-	963-128	88,-



Robust laboratory and industrial precision scale for heavy items, with EC type approval [M]

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 using an external test weight
- **Metal housing**: robust and sturdy
- **Weighing with tolerance range (checkweighing)**: Input of two upper and two lower limit values through four arrow keys. An audible and visual signal assists with the portioning, dispensing or grading
- **1 Draught shield** standard for models with [d] = 0,001 g, weighing space W×D×H 170×150×100 mm

- **Underfloor weighing**: load support with loop on the underside of the balance (standard with 2), hook not included with the delivery
- **Protective working cover** included with delivery

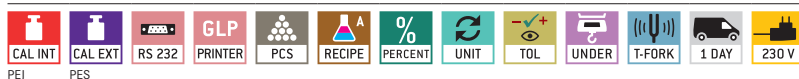
Technical data

- 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 W×D×H, without draught shield
A 220×330×90 mm, **B** 220×339×80 mm
C 260×330×113 mm
- Permissible ambient temperature 10 °C/30 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN PES-A04S05, **€ 40,-**
- KERN PES: **Rechargeable battery pack internal**, operating time up to 32 h, without backlight, charging time approx. 15 h, KERN PES-A01, **€ 610,-**
- **Relay output** with 5 outputs for weighing in 3 tolerance ranges, must be ordered at purchase, KERN PES-A02, **€ 480,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- **Loop for underfloor weighing**, KERN PES-A03, **€ 40,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

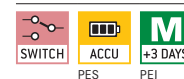
STANDARD





















OPTION



FACTORY



Model	Weighing range [Max] g	Readout [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Quality code 	Price € excl. of VAT ex works €	Option			
									Verification		DAkkS Calibr. Certificate	
									 KERN	€	 KERN	€
PES 620-3M 	620	0,001	-	-	± 0,003		BB	1280,-	-	-	963-127	72,-
PES 2200-2M	2200	0,01	-	-	± 0,02		BB	840,-	-	-	963-127	72,-
PES 4200-2M	4200	0,01	-	-	± 0,02		BB	1000,-	-	-	963-127	72,-
PES 6200-2M	6200	0,01	-	-	± 0,03		BB	1240,-	-	-	963-128	88,-
PES 15000-1M	15000	0,1	-	-	± 0,2		BB	1190,-	-	-	963-128	88,-
PES 31000-1M 	31000	0,1	-	-	± 0,4		CB	2050,-	-	-	963-128	88,-
Note: For applications that require verification, please order verificati on at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.												
PEJ 620-3M 	620	0,001	0,01	0,1	± 0,003		BB	1480,-	965-201 	110,-	963-127	72,-
PEJ 2200-2M	2200	0,01	0,1	0,5	± 0,02		CB	1060,-	965-216 	66,-	963-127	72,-
PEJ 4200-2M	4200	0,01	0,1	0,5	± 0,02		CB	1230,-	965-216 	66,-	963-127	72,-

TIPS FROM THE EXPERTS

As well as our balances and test services, we can offer you an extensive range of medical balances, measuring and testing technology as well as microscopes and refractometers.

We will offer you reliable quality at fair prices and with the shortest delivery times. Our product specialists will give you professional advice, will work with you to find the right product and will provide comprehensive support after the purchase too. This ensures a high level of investment security and a good feeling – KERN, the nice balance manufacturer from the wilds of Southern Germany.

For all details on our ranges, please see www.kern-sohn.com or request your own personal catalogues right now:
Telephone +49 [0] 7433 9933-0



#1 “No compromises with optical devices”

KERN offer you a complete, carefully-designed range of biological microscopes, stereo microscopes, metallurgical microscopes, polarisation microscopes as well as analogue and digital refractometers which are high-quality and highly-competitive in terms of price. Browse and find products in the **KERN 2018 catalogue for microscopes and refractometers**.



*Daniel Junger,
Head of Product Management
Optical devices*

Analytical balances

Quick-Finder Analytical balances

Read-out [d] mg	Weighing range [Max] g	Model KERN	Price excl. of VAT ex works €	Page								
For an explanation on the pictos, see the front flap												
0,01	101	ABT 100-5NM	1980,-	39	1	○	●				●	●
0,01 0,1	42 120	ABT 120-5DNM	2120,-	39	1	○	●				●	●
0,01 0,1	82 220	ALJ 200-5DA	1750,-	37	1		●				●	●
0,01 0,1	82 220	ABT 220-5DNM	2320,-	39	1	○	●				●	●
0,1	82	ABS 80-4N	960,-	38	1			●			○	●
0,1	82	ABJ 80-4NM	1040,-	38	1	○	●				○	●
0,1	120	ADB 600-C3	610,-	35	1			●			●	
0,1	120	ADB 100-4	620,-	35	1			●			●	
0,1	120	ABS 120-4N	1020,-	38	1						○	●
0,1	120	ABJ 120-4NM	1070,-	38	1	○	●	●			○	●
0,1	120	ABT 120-4NM	1470,-	39	1	○	●				●	●
0,1	160	ALS 160-4A	930,-	37	1			●			●	●
0,1	160	ALJ 160-4A	1030,-	37	1		●				●	●
0,1	160	ALJ 160-4AM	1050,-	37	1	○	●				●	●
0,1	210	ADB 200-4	640,-	35	1			●			●	
0,1	220	ABS 220-4N	1070,-	38	1			●			○	●
0,1	220	ABJ 220-4NM	1160,-	38	1	○	●				○	●
0,1	220	ABT 220-4NM	1770,-	39	1	○	●				●	●
0,1	250	ALS 250-4A	980,-	37	1			●			●	●
0,1	250	ALJ 250-4A	1060,-	37	1		●				●	●
0,1	250	ALJ 250-4AM	1090,-	37	1	○	●				●	●
0,1	310	ALJ 310-4A	1190,-	37	1		●				●	●
0,1	320	ABS 320-4N	1230,-	38	1			●			○	●
0,1	320	ABJ 320-4NM	1330,-	38	1	○	●				○	●
0,1	320	ABT 320-4NM	1970,-	39	1	○	●				●	●
0,1	510	ALJ 500-4A	1950,-	37	1		●				●	●

News 2018

= Carat balances

● = standard ○ = option

- Large glass draught shield with 3 sliding doors
- Large weighing ranges at a top price
- Now also available as a special carat model

from €

610,-

page 35

HIGH-LIGHT

FACE LIFT



Christian D'Onofrio

Product specialist Analytical balances

Tel. +49 [0] 7433 9933-147

Fax +49 [0] 7433 9933-29147

christian.donofrio@kern-sohn.com



KERN ADB



FACE
LIFT



04

The price leader in analytical balances – now in a new compact design and with special carat model

Features

- **1 NEW:** KERN ADB 600-C3! Compact, space-saving carat balance 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
- **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed.
- **Compact size**, practical for small spaces
- **Simple and convenient 6-key operation**

Technical data

- Large backlit LCD display, digit height 16 mm
- Dimensions weighing surface, stainless steel, Ø 90 mm
- Overall dimensions (incl. draught shield) W×D×H
KERN ADB: 230×310×330 mm
KERN ADB-C: 230×310×230 mm
- Weighing space W×D×H
KERN ADB: 170×160×205 mm
KERN ADB-C: 170×160×110 mm
- Net weight approx. 4,4 kg
- Permissible ambient temperature 10 °C/30 °C

Accessories

- **2 Ioniser** to neutralise electrostatic charge, KERN YBI-01A, **€ 940,-**
- **3 Precious stones plate**, aluminium with practical spout, W×D×H 83×66×23 mm, KERN AEJ-A05, **€ 40,-**
- **4 Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03, **€ 990,-**
- **Minimum weight of sample**, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkKS calibration certificate, KERN 969-103, **€ 10,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

CAL EXT

RS 232

GLP

PC

PERCENT

UNIT

MULTI

FORCE

1 DAY

OPTION

DAkKS

+3 DAYS

Model	Weighing range	Readout	Reproducibility	Linearity	Price € excl. of VAT ex works €	Options	
						DAkKS Calibr. Certificate	
KERN	[Max] g	[d] mg	mg	mg		DKD KERN	€
ADB 100-4	120	0,1	0,2	± 0,4	620,-	963-101	138,-
ADB 200-4	210	0,1	0,2	± 0,4	640,-	963-101	138,-
ADB 600-C3	120 g 600 ct	0,1 mg 0,001 ct	0,2 mg 0,002 ct	± 0,4 mg 0,004 ct	610,-	963-101	138,-

New model = Carat balance



1 KERN ALJ 200-5DA with optional ionisor 2, see Accessories

Analytical balance range with large weighing ranges – now also with EC type approval [M] or available as semi-micro analytical balance

Features

- **1 NEW:** KERN ALJ 250-5DA! High-precision semi-micro analytical balance
- **2 NEW:** KERN ALJ-A03! Ionisor to neutralise electrostatic charge for fixed installation in the analytical balance. This it makes for convenient handling as you no longer need a separate device. Simply enable the ionisor fan at the push of a button. Suitable for all models in this range, see accessories on the right
- KERN ALJ-A/-AM: **Automatic internal adjustment** in the case of a change in temperature $\geq 1,2\text{ }^{\circ}\text{C}$ or timecontrolled every 3 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN ALS-A: **Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- **Ergonomically optimised keypad** for left and righthanded users
- **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed.
- **Compact size**, practical for small spaces
- **Protective working cover** included with delivery



Technical data

- Backlit LCD display, digit height 17 mm
- Dimensions weighing surface, stainless steel, \varnothing 80 mm
- Overall dimensions (incl. draught shield) W×D×H 210×340×330 mm
- Weighing space W×D×H 160×140×205 mm
- Net weight approx. 7 kg
- Permissible ambient temperature
KERN ALS-A/ALJ-A/ALJ-DA: 5 °C/35 °C
KERN ALJ-AM: 15 °C/30 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN ALJ-A01S05, **€ 40,-**
- **Protective dust cover**, KERN ABS-A08, **€ 30,-**
- **2 Draft shield rear panel with integrated ioniser** to neutralise electrostatic charge. Is fitted in place of the existing glass rear panel of the draft shield. Suitable for all models in the KERN ALS-A/ALJ-A/ALJ-AM/ALJ-DA range, please order at the time you order your balance, the scope of delivery is the rear panel, ioniser, power supply. Factory Option, KERN ALJ-A03, **€ 690,-**

- **3 Set for density determination** of liquids and solids with density $\leq/\geq 1$, the density is indicated directly on the display, KERN YDB-03, **€ 390,-**
- **4 Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03, **€ 990,-**
- **Minimum weight of sample**, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, **€ 10,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Readout [d] mg	Verification value [e] mg	Minimal load [Min] mg	Reproducibility mg	Linearity mg	Price € excl. of VAT ex works €	Options			
								Verification		DAkkS Calibr. Certificate	
KERN								MI KERN	€	DKD KERN	€
ALS 160-4A	160	0,1	-	-	0,1	± 0,3	930,-	-	-	963-101	138,-
ALS 250-4A	250	0,1	-	-	0,1	± 0,3	980,-	-	-	963-101	138,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
ALJ 200-5DA <small>NEW</small>	82 220	0,01 0,1	-	-	0,04 0,1	± 0,1 0,2	1750,-	-	-	963-101	138,-
ALJ 160-4A	160	0,1	-	-	0,1	± 0,3	1030,-	-	-	963-101	138,-
ALJ 160-4AM	160	0,1	1	10	0,2	± 0,3	1050,-	965-201	110,-	963-101	138,-
ALJ 250-4A	250	0,1	-	-	0,1	± 0,3	1060,-	-	-	963-101	138,-
ALJ 250-4AM	250	0,1	1	10	0,2	± 0,3	1090,-	965-201	110,-	963-101	138,-
ALJ 310-4A	310	0,1	-	-	0,1	± 0,3	1190,-	-	-	963-101	138,-
ALJ 500-4A	510	0,1	-	-	0,2	± 0,4	1950,-	-	-	963-101	138,-

NEW New model



The bestseller in analytical balances, with high-quality single-cell weighing system, also with EC type approval [M]

Features

- KERN ABJ-NM: **Automatic internal adjustment** in the case of a change in temperature $\geq 2\text{ }^{\circ}\text{C}$ or timecontrolled every 4 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN ABS-N: **Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- **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
- ABJ-NM has OIML certification
- **Protective working cover** included with delivery

Technical data

- Large LCD display, digit height 14 mm
- Dimensions weighing surface, stainless steel, \varnothing 91 mm
- Overall dimensions (incl. draught shield) W×D×H 210×340×325 mm
- Weighing space W×D×H 174×162×227 mm
- Net weight approx. 6 kg
- Permissible ambient temperature 10 °C/30 °C



Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN ACS-A02S05, € 40,-
- **Set for density determination** of liquids and solids with density $\leq/\geq 1$, the density is indicated directly on the display, KERN YDB-03, € 390,-
- **Ioniser** to neutralise electrostatic charge, KERN YBI-01A, € 940,-
- **Data interface RS-232**, interface cable included, approx. 1,5 m, KERN ACS-A01, € 75,-
- **Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03, € 990,-
- **Minimum weight of sample**, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, € 10,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

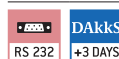
4 Single-cell advanced technology:

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

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Readout [d] mg	Verification value [e] mg	Minimal load [Min] mg	Reproducibility mg	Linearity mg	Price € excl. of VAT ex works €	Options			
								Verification		DAkkS Calibr. Certificate	
KERN								MI KERN	€	DKD KERN	€
ABS 80-4N	82	0,1	-	-	0,2	± 0,3	960,-	-	-	963-101	138,-
ABS 120-4N	120	0,1	-	-	0,2	± 0,3	1020,-	-	-	963-101	138,-
ABS 220-4N	220	0,1	-	-	0,2	± 0,3	1070,-	-	-	963-101	138,-
ABS 320-4N	320	0,1	-	-	0,2	± 0,3	1230,-	-	-	963-101	138,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.											
Verification at the factory, we need to know the full address of the location of use.											
ABJ 80-4NM	82	0,1	1	10	0,2	± 0,3	1040,-	965-201	110,-	963-101	138,-
ABJ 120-4NM	120	0,1	1	10	0,2	± 0,3	1070,-	965-201	110,-	963-101	138,-
ABJ 220-4NM	220	0,1	1	10	0,2	± 0,3	1160,-	965-201	110,-	963-101	138,-
ABJ 320-4NM	320	0,1	1	10	0,2	± 0,3	1330,-	965-201	110,-	963-101	138,-

↓ Price reduction



04

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. In addition, the ingredients for the recipe are numbered automatically and printed out with their corresponding number and nominal weight
- **Identification number:** 4 digits, printed on calibration protocol freely programmable
- **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, $\varnothing 80\text{ mm}$
- Overall dimensions (incl. draught shield) $W \times D \times H\text{ } 217 \times 356 \times 338\text{ mm}$
- Weighing space $W \times D \times H\text{ } 168 \times 172 \times 223\text{ mm}$
- Net weight approx. 7 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, **€ 40,-**
- **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, **€ 390,-**
- **2 Ioniser** to neutralise electrostatic charge, KERN YBI-01A, **€ 940,-**
- **3 Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03, **€ 990,-**
- **Minimum weight of sample**, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, **€ 10,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

- 4 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 sec under laboratory conditions
 - **Shock proof construction**
 - **High corner load performance**

STANDARD

CAL INT

RS 232

GLP

INTERN

PCS

RECIPE

PERCENT

UNIT

UNDER

MULTI

SC TECH

1 DAY

OPTION

DAkkS

+3 DAYS

FACTORY

M

+3 DAYS

Model	Weighing range [Max] g	Readout [d] mg	Verification value [e] mg	Minimal load [Min] mg	Reproducibility mg	Linearity mg	Price € excl. of VAT ex works €	Options			
								Verification		DAkkS Calibr. Certificate	
								<div>MI KERN</div>	€	<div>DKD KERN</div>	€
KERN											
ABT 120-4NM	120	0,1	1	10	0,1	$\pm 0,2$	1470,-	965-201	110,-	963-101	138,-
ABT 220-4NM	220	0,1	1	10	0,1	$\pm 0,2$	1770,-	965-201	110,-	963-101	138,-
ABT 320-4NM	320	0,1	1	10	0,1	$\pm 0,3$	1970,-	965-201	110,-	963-101	138,-
ABT 100-5NM	101	0,01	1	1	0,05	$\pm 0,15$	1980,-	965-201	110,-	963-101	138,-
Note: For applications that require verification, please order verificati on at the same time, initial verification at a later date is not possible.											
Verification at the factory, we need to know the full address of the location of use.											
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d]											
ABT 120-5DNM	42 120	0,01 0,1	1	1	0,02 0,1	$\pm 0,05 0,2$	2120,-	965-201	110,-	963-101	138,-
ABT 220-5DNM	82 220	0,01 0,1	1	1	0,05 0,1	$\pm 0,1 0,2$	2320,-	965-201	110,-	963-101	138,-

Moisture analysers

Moisture analysing is an integral part of production and processing of many raw and finished products and has a crucial impact on the quality of the product.

Moisture analysers are used particularly in the food industry, water resource management (sewage plants, etc.), plastics industry, agriculture and the energy industry (bio-energy plants, etc.).

Determining moisture requires a great deal of experience. Depending on the type of sample and the task involved, various drying processes are used.

KERN has concentrated on the most widely-used drying method: halogen drying, which brings many advantages:

- Sample is evenly warmed from above, without risk of burning the sample surface
- Affordable purchase costs ensure rapid amortisation of the device
- Most common temperature ranges from 35 – 200 °C
- High measuring precision, up to 0.01 %
- Sufficient buffer capacity, weighing range up to 160 g
- Various drying programs (soft drying, standard drying, drying in levels, rapid drying (Boost))

The numerous memories of the KERN moisture analyser are particularly useful, as they hold information on the complete drying processes with drying parameters such as drying time, drying period, drying temperature, display settings, switch off criteria, etc. This saves an enormous amount of time and helps to achieve repeatable results.

On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser.

Determination of drying parameters





We would be pleased to carry out individual analyses on the sample you submit, which will help you when setting the parameters of your moisture analyser and will lead to results which can be reproduced.

KERN 965-243, € 95,-/hour

Temperature calibration by KERN moisture analyzers (factory calibration certificate)

In order to guarantee the comparability of the results of moisture analyses it is crucial that the heating chamber and therefore the sample are maintained at the correct temperature. Over time, for example, deposits or dirt can contaminate the heating chamber of the moisture analyser and this can distort the measuring results. It is therefore necessary to carry out regular temperature calibration. KERN 964-305, € 140,-

Quick-Finder Moisture analysers

Read-out [d] g	Weighing range [Max] g	Model KERN	Price excl. of VAT ex works €	Page				
					For an explanation on the pictos, see the front flap			
0,001	60	DBS 60-3	1270,-	42	1	●	●	●
0,001	110	DAB 100-3	1050,-	41	1	●	●	●
0,001	160	DLB 160-3A	1170,-	43	1	●	●	●

● = standard ○ = option

- **Powerful halogenquartz glass heater 400 W**
- **High level of process reliability thanks to drying programs which can be stored**
- **Memory for drying processes which have been carried out**



Jesús Martínez
Product specialist Moisture analysers

Tel. +49 [0] 7433 9933-209
Fax +49 [0] 7433 9933-29209
jesus.martinez@kern-sohn.com

**HIGH-
LIGHT**

from €

1050,-

page 41



KERN DAB



Moisture analyser with user-friendly graphics display and 15 memories for drying programs

Features

- Backlit graphic display, digit height 14 mm
 - 1 Drying process active
 - 2 Active heating profile
 - 3 Active switch-off criteria
 - 4 Previous drying time
 - 5 Current temperature
 - 6 Current moisture content in %
- Halogen quartz glass heater 400 W
- Observation window above the sample, useful during initial setting
- 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

STANDARD

CAL EXT

MEMORY

RS 232

GLP

UNIT

230 V

DMS

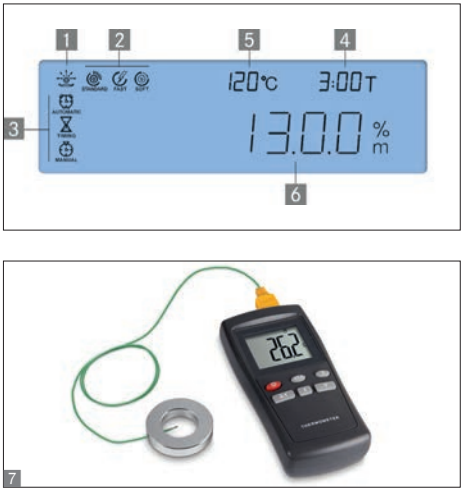
1 DAY

OPTION

DAkKS

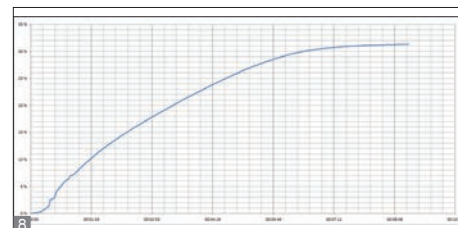
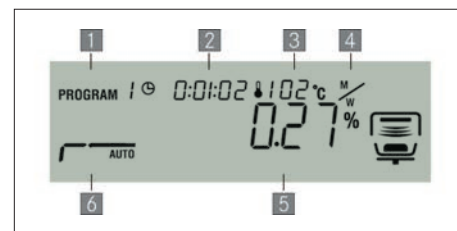
+3 DAYS

Model KERN	DAB 100-3
Readout [d]	0,001 g/0,01 %
Weighing range [Max]	110 g
Reproducibility, weight of sample 10 g	0,02 %
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 %
Moisture content (M)	Absolute value in [g]
Temperature range	40°C-199°C in steps up to 1 °C
Drying modes	<input checked="" type="checkbox"/> Standard drying <input checked="" type="checkbox"/> Gentle drying <input checked="" type="checkbox"/> Rapid drying
Switch off criteria	<ul style="list-style-type: none">• Automatic switch off (2 mg loss in weight in 45 s)• Time controlled switch off (3 min - 99 min 59 sec, 10 s increments)• Manual switch off at the press of a button
Log output	<ul style="list-style-type: none">• Manual at the end of the drying process, e. g. with KERN YKB-01N printer
Overall dimensions W×D×H	240×365×180 mm
Net weight	4,82 kg
Price €, excl. of VAT, ex works	1050,-
Option DAkKS Calibr. Certificate	Mass: KERN 963-127, € 72,-
Option Factory Calibr. Certificate	Temperature: KERN 964-305, € 140,-



Accessories

- Sample plates aluminium, ø 90 mm, unit of 80 pieces, KERN MLB-A01A, € 45,-
- Round fiberglass filter e.g. for samples that splash or become encrusted or for determining dry mass in liquids, high mechanical stability, with organic binder, box of 100 pieces, KERN RH-A02, € 80,-
- Round fiberglass filter e.g. for samples that splash or become encrusted or for determining dry mass in liquids, medium mechanical stability, without organic binder, box of 100 pieces, KERN YMF-A01, € 25,-
- Temperature calibration set consists of measuring sensor and display device, KERN DAB-A01, € 110,-
- RS-232/Ethernet adapter for connection to an IP-based Ethernet network, KERN YKI-01, € 290,-
- RS-232/Bluetooth adapter to connect to Bluetooth capable devices, such as Bluetooth printers, tablets, laptops, smart-phones, etc., KERN YKI-02, € 220,-
- RS-232/WiFi adapter for wireless connection to networks and WLAN capable devices, such as tablets, laptops or smartphones, KERN YKI-03, € 750,-
- Thermal printer, KERN YKB-01N, € 290,-



Moisture analyser with graphics display and 10 memories for drying programs

Features

- Backlit graphic display, digit height 15 mm

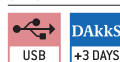
- 1 Drying process active
- 2 Previous drying time
- 3 Current temperature
- 4 Unit for displaying the results
- 5 Current moisture content in %
- 6 Active heating profile

- Halogen quartz glass heater 400 W
- Observation window above the sample, useful during initial setting
- Internal memory for automatic sequence of 10 complete drying processes and 100 drying processes carried out
- The last value measured remains on the display until it is replaced by a new measurement

STANDARD



OPTION



Model KERN	DBS 60-3
Readout [d]	0,001 g/0,01 %
Weighing range [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	50 °C-200 °C in steps up to 1 °C
Drying modes	<input type="checkbox"/> Standard drying <input type="checkbox"/> Drying in levels <input type="checkbox"/> Gentle drying <input type="checkbox"/> Rapid drying
Switch off criteria	<ul style="list-style-type: none"> 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 sec - 10 min (Only when used with printer KERN YKB-01N or PC)
Overall dimensions W×D×H	204×336×167 mm
Net weight	approx. 4,6 kg
Price €, excl. of VAT, ex works	1270,-
Option DAkKS Calibr. Certificate	Mass: KERN 963-127, € 72,-
Option Factory Calibr. Certificate	Temperature: KERN 964-305, € 140,-

- Sample description for up to 99 samples, 2 digits, freely programmable, and is printed in the measuring protocol
- Date and time display as standard
- 10 sample plates included
- Protective working cover included with delivery
- Application handbook: 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, € 40,-
- Sample plates aluminium, Ø 90 mm, unit of 80 pieces, KERN MLB-A01A, € 45,-
- Round fiberglass filter e.g. for samples that splash or become encrusted or for determining dry mass in liquids, high mechanical stability, with organic binder, box of 100 pieces, KERN RH-A02, € 80,-
- Round fiberglass filter e.g. for samples that splash or become encrusted or for determining dry mass in liquids, medium mechanical stability, without organic binder, box of 100 pieces, KERN YMF-A01, € 25,-
- Temperature calibration set consists of measuring sensor and display device, KERN DBS-A01, € 450,-
- USB interface kit for bi-directional data exchange between balance/moisture analyser and computer. Scope of delivery: USB cable, driver, Software Balance Connection, KERN DBS-A02, € 290,-
- Display of the drying process in conjunction with BalanceConnection, KERN SCD-4.0, € 150,-
- Thermal printer, KERN YKB-01N, € 290,-
- Matrix needle printer, to print the weights on normal paper, ideal for long-term archiving, KERN 911-013, € 360,-
- Label printer, KERN YKE-01, € 590,-



The moisture analyser for heavy, high-volume samples

Features

- Backlit LCD display, digit height 17 mm
 - 1 Current moisture content in %
 - 2 Unit for displaying the results
 - 3 Drying process active
- Halogen quartz glass heater 400 W
- Internal memory for automatic sequence of 5 complete drying processes

- The last value measured remains on the display until it is replaced by a new measurement
- 10 sample plates included
- Protective working cover included with delivery
- Application handbook: On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

STANDARD

CAL EXT

MEMORY

RS 232

GLP

UNIT

230 V

DMS

1 DAY

OPTION

DAKKS

+3 DAYS

Model KERN	DLB 160-3A
Readout [d]	0,001 g/0,01 %
Weighing range [Max]	160 g
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	35 °C–160 °C in steps up to 1 °C
Drying modes	Standard drying Rapid drying, Pre-heat level, can be switched on
Switch off criteria	• Automatic unrestricted switch off (Selectable loss in weight 0,1%-9,9% in 60 s) • Time controlled switch off (1 min – 99 min) • Manual switch off at the press of a button
Log output	• Continuous output (residual weight) • At the end of the drying process, manual or automatic (Only in connection with KERN YKB-01N printer or PC)
Overall dimensions W×D×H	210×340×225 mm
Net weight	approx. 4,2 kg
Price €, excl. of VAT, ex works	1170,-
Option DAkKS Calibr. Certificate	Mass: 963-127, € 72,-
Option Factory Calibr. Certificate	Temperature: KERN 964-305, € 140,-

Accessories

- Protective working cover, scope of delivery: 5 items, KERN ALJ-A01S05, € 40,-
- Sample plates aluminium, Ø 90 mm, unit of 80 pieces, KERN MLB-A01A, € 45,-
- Round fiberglass filter e.g. for samples that splash or become encrusted or for determining dry mass in liquids, high mechanical stability, with organic binder, box of 100 pieces, KERN RH-A02, € 80,-
- Round fiberglass filter e.g. for samples that splash or become encrusted or for determining dry mass in liquids, medium mechanical stability, without organic binder, box of 100 pieces, KERN YMF-A01, € 25,-
- 4 Temperature calibration set consists of measuring sensor and display device, KERN DLB-A01, € 290,-
- Thermal printer, KERN YKB-01N, € 290,-
- Matrix needle printer, to print the weights on normal paper, ideal for long-term archiving, KERN 911-013, € 360,-



”

Getting goods flowing rapidly and correctly, that is our passion. My colleagues and I are here each and every day to make sure that your order is processed without delay, and that, as a rule, your products are sent to you within 24 hours by courier service or freight forwarder.

“

Bernd Schätzle, Shipping Department

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.

► **Dual range** scales cover a particularly wide range of applications. With these scales, the total weighing range is divided into 2 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. In this way, the high level of accuracy is guaranteed at all times, even during harsh everyday use. Find the right test weights for you, see page 162.

Touchscreen balances

The newest development for an even greater level of user-friendliness is the intuitive touchscreen operation, which is being integrated into new KERN models, see page 54/55 (FKT), 100/101 (IKT), 152 (FKTF).

NOTE: a high-quality touchscreen bench scale range (KERN GAT, page 56/57) and touchscreen platform scale range (KERN IFT, page 102/103). Thanks to the intuitive touchscreen concept and multi-lingual operation (DE, GB, IT, ES, PT, NL, FI, PL, RU, SE, CZ) the balances can be used easily by inexperienced users, straightaway. For the professional user, the balances also provide convenient functions which permit a high level of individualisation and which thereby make operation significantly easier and quicker. Through a large memory, e.g. for item master data, weighing data etc. the balances are the ideal solution when working with a large range of goods or where there are high requirements for record keeping and documentation. Thanks to the high level of connectivity it is easy to connect barcode readers for item recognition, USB sticks for data storage or data transfer to PCs and networks using RS 232 or USB and this means that this range can be used for many different functions in Industry 4.0 applications.

► See the glossary on page 191–193



- Suitable for a wide variety of uses, e.g. in office, production, dispatch, etc.
- Designed for mobile use
- Rapid and steady weighing results











Edeltraud Semma-Hauser
Product specialist Bench scales

Tel. +49 [0] 7433 9933-140
Fax +49 [0] 7433 9933-29140
semma-hauser@kern-sohn.com



KERN FCE-N

Quick-Finder Bench scales

Read-out [d] g	Weighing range [Max] kg	Weighing plate W×D mm	Model KERN	Price excl. of VAT ex works €	Page	<div>           </div>									
						For an explanation on the pictos, see the front flap									
0,02	6	340×240	FKB 6K0.02	520,-	53	1		●		●	●		●	●	○
0,02	6	340×240	FKT 6K0.02L	890,-	54	1		●	●	●	●	●	●	●	●
0,05	6	294×225	GAB 6K0.05N	300,-	52	1		●		●	●				○
0,05	8	340×240	FKB 8K0.05	480,-	53	1		●		●	●		●	●	○
0,05	16	340×240	FKB 16K0.05	580,-	53	1		●		●	●		●	●	○
0,05	16	340×240	FKT 16K0.05L	890,-	54	1		●	●	●	●	●	●	●	●
0,1	3	253×228	FCF 3K-4	185,-	49	1		●			●		●	●	○
0,1	3	253×229	FCB 3K0.1	215,-	50	1		●		●	●		●	●	○
0,1	8	252×228	FCB 8K0.1	240,-	50	1		●		●	●		●	●	○
0,1	8	340×240	FKB 8K0.1A	300,-	51	1		●		●	●		●	●	○
0,1	12	294×225	GAB 12K0.1N	300,-	52	1		●		●	●	●			○
0,1	16	340×240	FKB 16K0.1	480,-	51	1		●		●	●		●	●	○
0,1	36	340×240	FKB 36K0.1	550,-	53	1		●		●	●		●	●	○
0,1	36	340×240	FKT 36K0.1L	890,-	54	1		●	●	●	●	●	●	●	●
0,2	6	300×225	GAT 6K-4	1150,-	56	1		●	●	●	●	●			○
0,2	30	294×225	GAB 30K0.2N	300,-	52	1		●		●	●	●			○
0,2	36	340×240	FKB 36K0.2	510,-	53	1		●		●	●		●	●	○
0,2	65	340×240	FKB 65K0.2	550,-	53	1		●		●	●		●	●	○
0,2	65	340×240	FKT 65K0.2L	890,-	54	1		●	●	●	●	●	●	●	●
0,5	6	252×228	FCB 6K0.5	195,-	50	1		●		●	●		●	●	○
0,5	15	340×240	FKB 15K0.5A	290,-	51	1		●		●	●		●	●	○
0,5	15	300×225	GAT 10K-4	1150,-	56	1		●	●	●	●	●			○
0,5	30	340×240	FKT 30K0.5L	790,-	54	1		●	●	●	●	●	●	●	●
0,5	65	340×240	FKB 65K0.5	510,-	53	1		●		●	●		●	●	○
1	3	252×228	FCE 3K1N	110,-	48	1		●						●	○
1	12	252×228	FCB 12K1	185,-	50	1		●		●	●		●	●	○
1	15	340×240	FKB 15K1A	260,-	51	1		●		●	●		●	●	○
1	30	253×228	FCF 30K-3	185,-	49	1		●			●		●	●	○
1	30	253×227	FCB 30K1	220,-	50	1		●		●	●		●	●	○
1	30	340×240	FKB 30K1A	290,-	51	1		●		●	●		●	●	○
1	30	300×225	GAT 30K-3	1150,-	56	1		●	●	●	●	●			○
1	60	340×240	FKT 60K1L	790,-	54	1		●	●	●	●	●	●	●	●
1	65	340×240	FKB 65K1A	300,-	51	1		●		●	●		●	●	○
1 2	3 6	295×225	GAB 6K1DNM	230,-	52	1	○	●		●	●	●			○
2	6	252×228	FCE 6K2N	110,-	48	1		●						●	○
2	24	252×228	FCB 24K2	185,-	50	1		●		●	●		●	●	○
2 5	6 15	294×225	GAB 15K2DNM	230,-	52	1	○	●		●	●	●			○
5	10	320×260	ECE 10K-3N	99,-	47	1		●						●	○
5	10	320×260	ECB 10K-3N	120,-	47	1		●						●	○
5	15	252×228	FCE 15K5N	110,-	48	1		●						●	○
5 10	15 30	294×225	GAB 30K5DNM	230,-	52	1	○	●		●	●	●			○
10	20	320×260	ECE 20K-2N	99,-	47	1		●						●	○
10	20	320×260	ECB 20K-2N	120,-	47	1		●						●	○
10	30	252×228	FCE 30K10N	110,-	48	1		●						●	○
20	50	320×260	ECE 50K-2N	99,-	47	1		●						●	○
20	50	320×260	ECB 50K-2N	120,-	47	1		●						●	○

● = standard ○ = option



06

Plain, mobile, uncomplicated

Features

- **High mobility:** Battery operation, compact, lightweight construction, recessed grips on the underside and low weight make this balance ideal for use in several locations
- Particularly large weighing plate
- **Very fast display:** steady weight values within 2 s
- **Simple and convenient 2-key operation**

Technical data

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

Accessories

- **Rechargeable battery pack internal,** operating time up to 30 h without backlight, charging time approx. 10 h, KERN PCB-A01, **€ 75,-**
- **Rechargeable battery pack external,** operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- **Tare pan made of stainless steel,** ideal for weighing loose small parts, fruit, vegetables etc., W×D×H 370×240×20 mm, KERN RFS-A02, **€ 55,-**
- **External universal mains adapter,** with universal input and optional input socket adapters for EU, GB, USA, YKA-03, **€ 31,-**
- 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 range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Options	
						DAKKS Calibr. Certificate	
KERN						DKD KERN	€
ECE 10K-3N	10	5	5	± 20	99,-	963-128	88,-
ECE 20K-2N	20	10	10	± 40	99,-	963-128	88,-
ECE 50K-2N	50	20	20	± 80	99,-	963-128	88,-
ECB 10K-3N	10	5	5	± 20	120,-	963-128	88,-
ECB 20K-2N	20	10	10	± 40	120,-	963-128	88,-
ECB 50K-2N	50	20	20	± 80	120,-	963-128	88,-

FACE
LIFT



06

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 252×228 mm
- Overall dimensions W×D×H 252×228×12,5 mm
- Optional battery operation, 9 V block not included, 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, **€ 40,-**
- **Stainless steel weighing plate**, robust, removable, for easy cleaning, KERN FCE-A01, **€ 35,-**
- **Rechargeable battery pack internal**, operating time up to 20 h without backlight, charging time approx. 10 h, KERN FCB-A01, **€ 50,-**

STANDARD

CAL EXT

BATT

MULTI

DMS

1 DAY

OPTION

ACCU

DAkkS +3 DAYS

Model	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Options	
						DAkkS Calibr. Certificate	
KERN						DKD KERN	€
FCE 3K1N	3	1	2	± 3	110,-	963-127	72,-
FCE 6K2N	6	2	2	± 4	110,-	963-128	88,-
FCE 15K5N	15	5	10	± 15	110,-	963-128	88,-
FCE 30K10N	30	10	10	± 30	110,-	963-128	88,-



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

Features

- **Simple and convenient 5-key operation**
- **Very fast display:** steady weight values within 3 s
- Ideal as a
 - compact letter and parcel scale, especially in constricted spaces
 - grading or commissioning balance or simple checkweigher in production or dispatch
 - Checkweigher in the catering trade, cafeterias, school kitchens
- **High mobility:** 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, W×D 253×228 mm
- Overall dimensions W×D×H 270×345×106 mm
- Optional battery operation, 9 V block not included, 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, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 120 h without backlight, charging time approx. 16 h, KERN GAB-A04, **€ 40,-**

STANDARD

CAL EXT

PCS

RECIPE

PERCENT

MOVE

BATT

MULTI

DMS

1 DAY

OPTION

ACCU

DAkkS

+3 DAYS

Model	Weighing range	Readout	Reproducibility	Linearity	Smallest part weight [Normal] g/piece	Price excl. of VAT ex works €	Options	
							DAkkS Calibr. Certificate	
KERN	[Max] kg	[d] g	g	g			DKD KERN	€
FCF 3K-4	3	0,1	0,1	± 0,3	2	185,-	963-127	72,-
FCF 30K-3	30	1	1	± 3	20	185,-	963-128	88,-

Price reduction

FACE
LIFT



Bench scale with second display on the backside of the scale

Features

- **1 Second display** on the rear of the balance
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **High mobility:** 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.)
- **Data interface RS-232** standard
- **Protective working cover** included with delivery

Technical data

- Backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, W×D 253×229 mm
- Overall dimensions W×D×H 252×228×12,5 mm
- Optional battery operation, 9 V block not included, operating time up to 12 h
- Net weight approx. 2,6 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN FCB-A02S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 10 h without backlight, charging time approx. 10 h, KERN FCB-A01, **€ 50,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Smallest part weight [Normal] g/piece	Price excl. of VAT ex works €	Options	
							DAkkS Calibr. Certificate	
KERN							DKD KERN	€
FCB 3K0.1	3	0,1	0,1	± 0,3	2	215,- ¹	963-127	72,-
FCB 8K0.1	8	0,1	0,1	± 0,3	2	240,-	963-128	88,-
FCB 6K0.5	6	0,5	0,5	± 1,5	10	195,-	963-128	88,-
FCB 12K1	12	1	1	± 3	20	185,-	963-128	88,-
FCB 30K1	30	1	1	± 3	20	220,-	963-128	88,-
FCB 24K2	24	2	2	± 6	40	185,-	963-128	88,-

¹ Price reduction



Bench scale up to 65 kg with large weighing plate

Features

- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **1 Particularly practical:** thanks to the large weighing ranges and compact dimensions, you can accurately weigh heavy loads in the most restricted of spaces. Useful for determining very small weight differences, such as, for example, gas wastage, abrasion of mechanical parts, rock samples, minerals, druses, silver etc.
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of wire g/m, surface weight g/m², or else
- **Protective working cover** included with delivery

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 340×240×21 mm
- Optional battery operation, 9 V block not included, operating time up to 12 h
- Net weight approx. 6 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN FKB-A02S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 10 h without backlight, charging time approx. 10 h, KERN PCB-A01, **€ 75,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

CAL EXT

RS 232

PCS

RECIPE

PERCENT

UNIT

MOVE

UNDER

BATT

MULTI

DMS

1 DAY

OPTION

ACCU

DAkKS

+3 DAYS

Model	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Smallest part weight [Normal] g/piece	Price excl. of VAT ex works €	Options	
							DAkKS Calibr. Certificate	
KERN							DKD KERN	€
FKB 8K0.1A	8	0,1	0,1	± 0,3	2	300,-	963-128	88,-
FKB 15K0.5A	15	0,5	0,5	± 1,5	10	290,-	963-128	88,-
FKB 15K1A	15	1	1	± 3	20	260,-	963-128	88,-
FKB 30K1A	30	1	1	± 3	20	290,-	963-128	88,-
FKB 65K1A	65	1	1	± 3	20	300,-	963-129	105,-



Checkweighing and portioning scale, also with EC type approval [M]

Features

- **Compact size**, practical for small spaces
- **High mobility**: thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- **Weighing with tolerance range (checkweighing)**: a visual and audible signal helps with portioning, dispensing or grading
- **Totalising** of weights
- **Protective working cover** included with delivery

Technical data

- Large backlit LCD display, digit height 24 mm
- Dimensions weighing surface
W×D 294×225 mm
- Overall dimensions W×D×H 320×330×125 mm

- Net weight approx. 3,0 kg
- Permissible ambient temperature
GAB-N: 0 °C/40 °C
GAB-DNM: -10 °C/40 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN CFS-A02S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 90 h without backlight, charging time approx. 12 h, KERN GAB-A04, **€ 40,-**
- **WLAN interface** for wireless connection of the balance to networks and WLAN capable devices, such as tablets, laptops or smartphones, must be ordered at purchase, please ask for delivery time, KERN CFS-A05, **€ 120,-**

- **Signal lamp** for visual support of weighing with tolerance range, KERN CFS-A03, **€ 250,-**
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp or barcode reader and printer, KERN CFS-A04, **€ 35,-**
- **Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., W×D×H 370×240×20 mm, KERN RFS-A02, **€ 55,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

Application examples

- Small industrial scale for pharmacies
- Hand mixtures of tea, coffee, chocolates
- Portioning of dough, meat, fish, poultry, mixed salads in cafeterias etc.
- Mobile weighing of freshly picked fruit on site
- Checkweigher in supermarkets
- High-precision industrial applications, piece counting or stock-taking

Note: Official verification duty for commercial trade

STANDARD

CAL EXT

RS 232

PCS

SUM

PERCENT

UNIT

TOL

MULTI

DMS

1 DAY

OPTION

ACCU

DAKKS

+3 DAYS

FACTORY

WLAN

M

+3 DAYS

GAB-DNM

Model	Weighing range	Readout	Verification value	Minimal load	Smallest part weight	Price excl. of VAT ex works €	Options			
							Verification		DAKKS Calibr. Certificate	
KERN	[Max] kg	[d] g	[e] g	[Min] g	[Normal] g/piece		KERN	€	KERN	€
GAB 6K0.05N	6	0,05	-	-	0,5	300,-	-	-	963-128	88,-
GAB 12K0.1N	12	0,1	-	-	1	300,-	-	-	963-128	88,-
GAB 30K0.2N	30	0,2	-	-	2	300,-	-	-	963-128	88,-
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d]										
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.										
Verification at the factory, we need to know the full address of the location of use.										
GAB 6K1DNM	3 6	1 2	1 2	20	2	230,-	965-228	70,-	963-128	88,-
GAB 15K2DNM	6 15	2 5	2 5	40	5	230,-	965-228	70,-	963-128	88,-
GAB 30K5DNM	15 30	5 10	5 10	100	10	230,-	965-228	70,-	963-128	88,-



Large, high resolution bench scale

Features

- Thanks to the high resolution of up to 360.000 points it is ideal for high-precision weighing in the industrial field
- **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
- **Particularly practical:** thanks to the large weighing ranges and compact dimensions, you can accurately weigh heavy loads in the most restricted of spaces. Useful for determining very small weight differences, such as, for example, gas wastage, abrasion of mechanical parts, rock samples, minerals, druses, silver etc.
- **Protective working cover** included with delivery

Technical data

- Backlit LCD display, digit height 18 mm
- Dimensions weighing surface, stainless steel, W×D 340×240 mm
- Dimensions housing W×D×H 350×390×120 mm
- Optional battery operation, 6×1.5 V Size C not included, operating time up to 40 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, **€ 40,-**
- **Rechargeable battery pack external**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- **Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., W×D×H 370×240×20 mm, KERN RFS-A02, **€ 55,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

CAL EXT

RS 232

PCS

RECIPE

PERCENT

UNIT

MOVE

UNDER

BATT

MULTI

DMS

1 DAY

OPTION

ACCU

DAKKS +3 DAYS

Model	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Smallest part weight [Normal] g/piece	Price excl. of VAT ex works €	Options	
							DAkKS Calibr. Certificate	
KERN							DKD KERN	€
FKB 6K0.02	6	0,02	0,04	± 0,1	0,2	520,-	963-128	88,-
FKB 8K0.05	8	0,05	0,05	± 0,15	0,5	480,-	963-128	88,-
FKB 16K0.05	16	0,05	0,1	± 0,25	0,5	580,-	963-128	88,-
FKB 16K0.1	16	0,1	0,1	± 0,3	1	480,-	963-128	88,-
FKB 36K0.1	36	0,1	0,2	± 0,5	1	550,-	963-128	88,-
FKB 36K0.2	36	0,2	0,2	± 0,6	2	510,-	963-128	88,-
FKB 65K0.2	65	0,2	0,4	± 1	2	550,-	963-129	105,-
FKB 65K0.5	65	0,5	0,5	± 1,5	5	510,-	963-129	105,-

**Alibi memory**

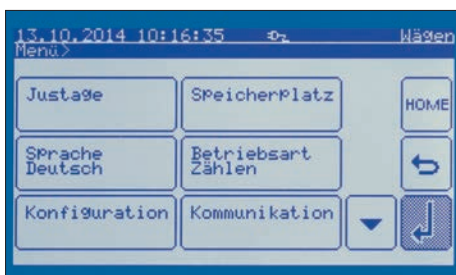
- Ring memory for up to 49,152 measuring results (744 measuring results per day!)
- Saved measuring results cannot be changed or cleared. If the maximum memory capacity is reached, then the oldest value will be overwritten
- In addition to the measuring result, the date, time, tare value, a sequential number and the serial number of the balance are also saved.
- Saved measuring results can be searched and recalled easily
- The alibi memory can also be used for applications which do not require verification
- Complies with WELMEC 2.5



Touchscreen industrial scale with enormous range of functions, also with EC type approval [M]

**Easy input of text and values**

Using large keypad, e.g. up to 80 item descriptions, user name, packaging weights etc.

**80 memories for each mode**

e.g. for Checkweighing, PRE-TARE, reference weight, target value when dispensing, item descriptions, user name, weights for tare containers, etc. Easy to enter using the large-scale keypad

**Weighing with tolerance range (checkweighing)**

Input of an upper/lower limit value. A visual and audible signal assists with portioning, dispensing or grading

Features

- **Convenient recipe weighing:** 99 recipes with 10 components each can be stored in plain text. There is a function to adjust the other components if the initial weight was too high. The actual values and the desired values as well as the proportionate percentages can be printed afterwards.
- **Multiplier function:** recipes with the ingredient weights recorded as percentage values can easily be replicated by entering a new target weight. The ideal solution for the preparation of larger containers, bulk packs etc.
- **Rapid function** for shortened stabilisation time with reduced readout
- **16 print forms** which can store up to 20 different information, such as, e.g., date, time, operator, item, net, tare, gross, PCS, target weight, PRE-TARE etc. The print forms can be generated easily in an Excel list at the PC and transferred to the balance using the RS-232 interface
- **Control outputs (optocoupler, digital I/O)** to connect relays, signal lamps, valves etc. (35V/80mA)
- **Protective working cover and hook for underfloor weighing** standard

Technical data

- Backlit and touch-sensitive LCD display, digit height 18 mm, screen diagonal 5,8" (127×74 mm)
- Dimensions weighing surface, stainless steel, W×D 340×240 mm
- Overall dimensions W×D×H 350×390×120 mm
- Optional battery operation, 6×1.5 V Size C not included, operating time up to 20 h
- Permissible ambient temperature 10 °C/40 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN FKB-A02S05, **€ 40,-**
- **Rechargeable battery pack external**, operating time up to 20 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- **RS-232/USB adapter**, to connect peripheral devices with USB connection, KERN AFH 12, **€ 85,-**
- **Signal lamp** for visual support of weighing with tolerance range, KERN IKT-A04, **€ 260,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

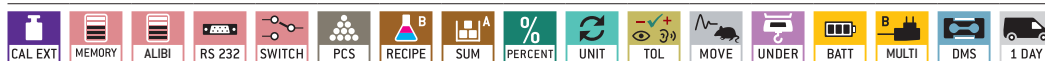
Modes

- ① Weighing
- ② Counting
- ③ Dispensing
- ④ Recipe weighing
- ⑤ Checkweighing
- ⑥ Totalising with daily total
- ⑦ Percentage determination
- ⑧ Animal weighing
- ⑨ Surface weight
- ⑩ Density determination, not for [M]
- ⑪ Rapid function, not for [M]

Functions

- Capacity display with ①–②, ⑤–⑦, ⑨–⑪
- Dispensing aid (–/+), with ③, ④
- Net/gross display, permanent, with ①, ③–⑤, ⑧–⑪
- Variable reference quantity, with ②
- Automatic reference optimisation, with ②
- PRE-TARE numerical or from the memory unit, with ①–⑦, ⑪
- Entering of item or batch description, operator etc., with ①–⑦, ⑪
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, grammage g/m², or similar, with ⑨
- Date/time, with ①–⑪
- Statistical function, with ①
- GLP printout, with ①–⑪
- Individual formatting of up to 16 printer forms, recipes, operating mode master data in MS Excel, import via RS-232, for examples, see the internet, with ①–⑪

STANDARD





OPTION



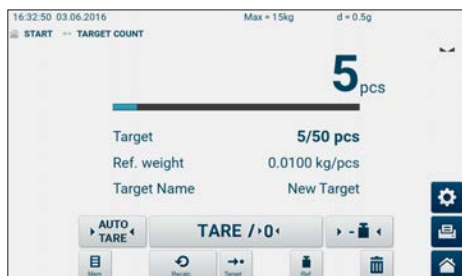
FACTORY



Model	Weighing range	Readout	Verification value	Minimal load	Smallest part weight	Price excl. of VAT ex works €	Options			
							Verification		DAkKS Calibr. Certificate	
							 KERN	€	 KERN	€
KERN	[Max] kg	[d] g	[e] g	[Min] g	[Normal] g/piece					
FKT 30K0.5L	30	0,5	-	-	5	790,-	-	-	963-128	88,-
FKT 60K1L	60	1	-	-	10	790,-	-	-	963-129	105,-
High resolution readout										
FKT 6K0.02L	6	0,02	-	-	0,2	890,-	-	-	963-128	88,-
FKT 16K0.05L	16	0,05	-	-	0,5	890,-	-	-	963-128	88,-
FKT 36K0.1L	36	0,1	-	-	1	890,-	-	-	963-128	88,-
FKT 65K0.2L	65	0,2	-	-	2	890,-	-	-	963-129	105,-
Note: For applications that require verification, please order verificati on at the same time, initial verification at a later date is not possible.										
Verification at the factory, we need to know the full address of the location of use.										
FKT 6K1LM	6	1	1	20	10	890,-	965-228	70,-	963-128	88,-
FKT 12K2LM	12	2	2	40	20	1050,-	965-228	70,-	963-128	88,-
FKT 30K5LM	30	5	5	100	50	1050,-	965-228	70,-	963-128	88,-
FKT 60K10LM	60	10	10	200	100	1050,-	965-229	93,-	963-129	105,-



KERN **easytouch** bench scale – the intuitive way to weigh



Convenient piece-counting function

Standard use: Direct input of the reference quantity or the reference weight
Professional use: Recall of items to be counted from the database with all relevant additional data such as piece weight, name, reference quantity, tare container weight, tolerances. Which means a super-fast sequence when counting: select item – load – count – done!



Fill-to-target function

Programmable target quantity or target weight. A signal will be displayed when the target value is reached



Convenient weighing with tolerance range (Checkweighing)

Standard use: Direct input of the tolerances in grams or percent
Professional use: Recall of items from the database with all relevant additional data such as piece weight, name, reference quantity, tare container weight, tolerances. That leads to a super-fast sequence when portioning, dosing or sorting: Select item – load – check – done!



Features

- High-quality, rapid processors allow efficient, delay-free operation
- Thanks to the **intuitive touchscreen concept** and multi-lingual operation (DE, GB, FR, IT, ES, PT, NL, FI, PL, RUS, SE, CZ) the balance can be used easily by inexperienced users, straightaway. For the professional user, the balance provides convenient functions which permit a high level of individualisation and which thereby make operation significantly easier and quicker
- Through a **large memory (256 MB)**, e.g. for item master data, weighing data etc. the balance is the ideal solution when working with a large range of goods or where there are high requirements for record keeping and documentation
- 1 Thanks to the high level of **connectivity** it is easy to connect barcode readers for item recognition, USB sticks for data storage or data transfer to PCs, scales and networks using RS-232 or USB. This means that this range can be used for many different functions in Industry 4.0 applications
- **Convenient recipe weighing**
Standard use: Direct input of the recipe ingredients in grams or percent
Professional use: Recall of items from the database with all relevant additional data such as target value, tolerances, name, tare container weight. That leads to a super-fast sequence when recipe-weighing: select recipe – weigh – done! A graphic signal helps when dosing individual recipe ingredients. An information column on the lefthand edge of the screen allows you to see at a glance which ingredients have already been weighed (proportionately).

- **Take-Off function:** allows you to remove the same quantity every time, e.g. when portioning in cafeterias or when picking small parts. A colour bar graph shows whether the quantity removed is below the limit or within the specified tolerances (blue) or is above the limit (red)
- **Classifying:** Similar objects are automatically classified according to their weight into predetermined classes
- **AUTO-PRINT function:** Automatic printing of the weighing result when the weighing value remains unchanged. The printing function as well as the content of the print-out can be adjusted individually depending on the operating mode
- **Searching and remote control of the balance** using external control devices or computers with the KERN Communication Protocol (KCP).
KCP is a standardised interface command structure for KERN balances and other instruments which allows you to recall and manage all relevant parameters and device functions.
You can therefore simply connect KERN devices with KCP to computers, industrial control systems and other digital systems. In a large number of cases the KCP is compatible with the MT-SICS protocol.
- 2 The battery compartment of the device can be opened easily, which means it is possible to change the rechargeable batteries without having to use any tool or break any verification seal labels etc.

Technical data

- Large backlit LCD touch display, digit height 12 mm, screen diagonal 7" (155×85 mm)
- Dimensions weighing surface, stainless steel, W×D 300×225 mm
- Overall dimensions W×D×H 315×350×120 mm

Accessories

- **Rechargeable battery pack internal**, operating time up to 10 h with backlight, charging time approx. 12 h, KERN GAB-A04, € 40,-
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp or barcode reader and printer, KERN CFS-A04, € 35,-
- **Software** for rapid and easy processing of the database at the PC (exporting, processing, importing), KERN SET-1.0, € 150,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Smallest part weight [Normal] g/piece	Price excl. of VAT ex works €	Options	
							DAkKS Calibr. Certificate	
KERN							DKD KERN	€
GAT 6K-4	6	0,2	0,4	± 0,6	2	1150,-	963-128	88,-
GAT 10K-4	15	0,5	0,5	± 1,5	5	1150,-	963-128	88,-
GAT 30K-3	30	1	2	± 3	10	1150,-	963-128	88,-

Stainless steel/Protection against dust and water splashes IP65...68

KERN scales – not scared of water at all!

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 chemical, pharmaceutical, food, manufacturing industries, etc. scales must be able to cope with these stresses without this affecting their performance.





For use in such harsh environmental conditions, levels of protection are defined, which specify which environmental stresses 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 on page 191–193

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

KERN-Pictogram	1. digit	Specification	2. digit	Specification
	6	Dustproof	5	Designed for temporary contact with liquids. Use a damp cloth for cleaning.
	6	Dustproof	6	Protection against water jets.
	6	Dustproof	7	Designed for temporary use in wet areas. Temporary submersion is possible.
	6	Dustproof	8	Designed for continuous use in wet areas. Submersion is possible.

- Scale entirely out of stainless steel
- Protection against dust and water splashes IP67
- High mobility: thanks to compact, flat construction and low weight, it is suitable for use in several locations (kitchen, cafeteria, warehouse etc.)



Lisa Mayer
Product specialist Stainless steel scales

Tel. +49 [0] 7433 9933-219
Fax +49 [0] 7433 9933-29219
lisa.mayer@kern-sohn.com

only €

230,-









page 61

**HIGH-
LIGHT**



KERN FOB-N

Quick-Finder Stainless steel/Protection against dust and water splashes IP65...68

Read-out [d] g	Weighing range [Max] kg	Model	Price excl. of VAT ex works €	Page								
					For an explanation on the pictos, see the front flap							
0,1	0,5	FOB 500-1S	79,-	60	1		●				●	
0,1	0,5	FOB 0.5K-4NS	105,-	60	1		●			●	●	
0,2	1,5	WTB 1K-4N	220,-	62	1		●		●	●		○
0,2	1,5	FFN 1K-4N	260,-	63	1		●			●	●	●
0,5	1,5	FOB 1.5K0.5	175,-	61	1		●				●	○
0,5	1,5	WTB 1K-4NM	255,-	62	1	○	●		●	●		○
0,5	1,5	FFN 1K-4NM	285,-	63	1	○	●		●	●		●
0,5	3	WTB 3K-4N	220,-	62	1		●		●			○
0,5	3	FFN 3K0.5IPN	255,-	63	1		●		●	●		●
0,5	3	FXN 3K-4N	280,-	64	1		●		●	●		
0,5 1	5 7,5	FOB 7K-4NL	230,-	61	1		●			●	●	
1	1	FOB 1K1M	195,-	61	1	○	●				●	○
1	3	FOB 3K1	180,-	61	1		●				●	○
1	3	WTB 3K-3NM	255,-	62	1	○	●		●			○
1	3	FFN 3K1IPM	285,-	63	1	○	●		●	●		●
1	3	FXN 3K-3M	340,-	64	1		●		●	●		
1	5	FOB 5K1S	79,-	60	1		●				●	
1	5	FOB 5K-3NS	105,-	60	1		●			●	●	
1	6	WTB 6K-3N	220,-	62	1		●		●	●		○
1	6	FFN 6K1IPN	255,-	63	1		●		●		●	●
1	6	FXN 6K-3N	280,-	64	1		●		●	●		
1	10	SFB 10K1HIP	670,-	65	1		●	○	●	●		●
1	15	FOB 15K1L	320,-	61	1		●				●	○
1 2	3 6	SXS 6K-3M	690,-	66	1	○	●	○	●	●		○
1 2	8 15	FOB 10K-3NL	230,-	61	1		●			●	●	
2	6	FOB 6K2	175,-	61	1		●				●	○
2	6	WTB 6K-3NM	255,-	62	1	○	●		●	●		○
2	6	FFN 6K2IPM	285,-	63	1	○	●		●	●		●
2	6	FXN 6K-3M	340,-	64	1		●		●	●		
2	15	WTB 10K-3N	220,-	62	1		●		●	●		○
2	15	FFN 15K2IPN	255,-	63	1		●		●		●	●
2	15	FXN 10K-3N	280,-	64	1		●		●	●		
2	20	SFB 20K2HIP	670,-	65	1		●	○	●	●		●
2	30	FOB 30K2L	320,-	61	1		●				●	○
2 5	6 15	SXS 10K-3M	690,-	66	1	○	●	○	●	●		○
2 5	6 15	SXS 10K-3LM	850,-	66	1	○	●	○	●	●		○
2 5	16 30	FOB 30K-3NL	230,-	61	1		●			●	●	
5	15	WTB 10K-3NM	255,-	62	1	○	●		●	●		○
5	15	FFN 15K5IPM	285,-	63	1	○	●		●	●		●
5	15	FXN 10K-3M	340,-	64	1		●		●	●		
5	15	SFB 15K5HIPM	710,-	65	1	○	●	○	●	●		●
5	25	FFN 25K5IPN	255,-	63	1		●		●	●		●
5	30	WTB 30K-3N	220,-	62	1		●		●	●		○
5	30	FXN 30K-3N	280,-	64	1		●		●	●		
5	50	SFB 50K5HIP	670,-	65	1		●	○	●	●		●
5	50	SFB 50K5LHIP	820,-	65	1		●	○	●	●		●
5	50	SFB 50K-3XL	910,-	65	1		●	○	●	●		●
5 10	15 30	SXS 30K-2M	860,-	66	1	○	●	○	●	●		○
5 10	15 30	SXS 30K-2LM	1160,-	66	1	○	●	○	●	●		○
10	25	FFN 25K10IPM	285,-	63	1	○	●		●	●		●
10	30	WTB 30K-2NM	255,-	62	1	○	●		●	●		○
10	30	FXN 30K-2M	340,-	64	1		●		●	●		
10	30	SFB 30K10HIPM	710,-	65	1	○	●	○	●	●		●
10	100	SFB 100K10HIP	810,-	65	1		●	○	●	●		●
10	100	SFB 100K-2L	910,-	65	1		●	○	●	●		●
10	100	SFB 100K-2XL	1140,-	65	1		●	○	●	●		●
10 20	30 60	SXS 60K-2M	850,-	66	1	○	●	○	●	●		○
10 20	30 60	SXS 60K-2LM	1160,-	66	1	○	●	○	●	●		○
20	60	SFB 60K20LHIPM	810,-	65	1	○	●	○	●	●		●
20	60	SFB 60K-2XLM	1010,-	65	1	○	●	○	●	●		●
20	200	SFB 200K-2XL	1160,-	65	1		●	○	●	●		●
20 50	60 150	SXS 100K-2M	1160,-	66	1	○	●	○	●	●		○
20 50	60 150	SXS 100K-2LM	1450,-	66	1	○	●	○	●	●		○
50	150	SFB 100K-2HM	790,-	65	1	○	●	○	●	●		●
50	150	SFB 100K-2LM	1010,-	65	1	○	●	○	●	●		●
50	150	SFB 100K-2XLM	1170,-	65	1	○	●	○	●	●		●
50 100	150 300	SXS 300K-2M	1450,-	66	1	○	●	○	●	●		○
100	300	SFB 300K-1LM	1170,-	65	1	○	●	○	●	●		●

News 2018

● = standard ○ = option



KERN FOB-S



KERN FOB-NS

Compact stainless steel balances with high level of protection against dust and water splashes

	KERN FOB-S	KERN FOB-NS
Features	<ul style="list-style-type: none">• Stainless steel design of the housing and weighing plate. Its smooth surfaces make it simple 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• Protective working cover included with delivery	
	<ul style="list-style-type: none">• Your support in a HACCP-compliant quality system	<ul style="list-style-type: none">• Particularly flat design• Protection against dust and water splashes IP65 (only when using battery)
Technical data	<ul style="list-style-type: none">• Large LCD display, digit height 20 mm• Dimensions weighing surface, stainless steel, W×D 125×155 mm• Overall dimensions W×D×H 175×155×40 mm• Ready for use: Battery included, 9 V Block, operating time up to 20 h• Net weight approx. 0,7 kg• Permissible ambient temperature 10 °C/40 °C	<ul style="list-style-type: none">• Large LCD display, digit height 20 mm• Dimensions weighing surface, stainless steel, W×D 120×150 mm• Overall dimensions W×D×H 170×150×40 mm• Ready for use: Batteries included, 9 V block, operating time up to 24 hours• Net weight approx. 0,8 kg• Permissible ambient temperature 10 °C/35 °C
Accessories	<ul style="list-style-type: none">• Protective working cover, scope of delivery: 5 items, KERN FOB-A11S05, € 40,-• Mains adapter external, KERN FOB-A09, € 35,-	<ul style="list-style-type: none">• Protective working cover, scope of delivery: 5 items, KERN FOB-A12S05, € 40,-• Mains adapter external, KERN FOB-A09, € 35,-

STANDARD FOB-S



OPTION



STANDARD FOB-NS



OPTION



Model	Weighing range	Readout	Weighing plate W×D	Price excl. of VAT ex works €	Options	
					DAkkS Calibr. Certificate	
	[Max] kg	[d] g	mm		DKD KERN	€
KERN						
FOB 500-1S	0,5	0,1	125×155	79,-	963-127	72,-
FOB 5K1S	5	1	125×155	79,-	963-127	72,-
FOB 0.5K-4NS	0,5	0,1	120×150	105,-	963-127	72,-
FOB 5K-3NS	5	1	120×150	105,-	963-127	72,-



KERN FOB



KERN FOB-N

Compact stainless steel balances with EC-Type Approval [M]

	KERN FOB	KERN FOB-N
Features	<ul style="list-style-type: none"> • Stainless steel design of the housing and weighing plate. Its smooth surfaces make it simple 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.) • Your support in a HACCP-compliant quality system • Protective working cover included with delivery 	
	<ul style="list-style-type: none"> • Secure and non-slip positioning with rubber feet • Increased protection against humidity through waterproof silicone sealing of the load cell, electronics and soldering joints • Check the weighing range which is in use at the press of a button (net/gross weight) 	<ul style="list-style-type: none"> • Protection against dust and water splashes IP67 (only when using battery)
Technical data	<ul style="list-style-type: none"> • Large LCD display, digit height 25 mm • Dimensions weighing surface, stainless steel A W×D 175×160 mm B W×D 215×215 mm • Overall dimensions W×D×H A 175×235×60 mm B 220×305×80 mm • Net weight A approx. 2,2 kg B approx. 2,8 kg • Permissible ambient temperature KERN FOB: -10 °C/40 °C KERN FOB-M: 0 °C/40 °C 	<ul style="list-style-type: none"> • Large backlit LCD display, digit height 25 mm • Dimensions weighing surface, stainless steel, C W×D 252×200 mm • Overall dimensions W×D×H 285×255×90 mm • Ready for use: Batteries included, 4×1.5 V AA, operating time up to 48 h • Net weight approx. 3,8 kg • Permissible ambient temperature 5 °C/35 °C
Accessories	<ul style="list-style-type: none"> • Protective working cover, scope of delivery: 5 items, for models with weighing plate size A KERN FOB-A05S05, € 40,- B KERN FOB-A06S05, € 40,- • Rechargeable battery pack internal, for models with weighing plate size A operating time up to 24 h, without backlight, charging time approx. 8 h, KERN FOB-A07, € 45,- B operating time up to 30 h, without backlight, charging time approx. 14 h, KERN FOB-A08, € 55,- 	<ul style="list-style-type: none"> • Protective working cover, scope of delivery: 5 items, KERN FOB-A13S05, € 40,- • Mains adapter external, KERN FOB-A01, € 35,-

STANDARD FOB



OPTION



FACTORY



FOB-M

STANDARD FOB-N



OPTION



Model	Weighing range	Readout	Verification value	Minimal load	Weighing plate W×D	Price excl. of VAT ex works €	Options			
							Verification		DAkkS Calibr. Certificate	
KERN	[Max] kg	[d] g	[e] g	[Min] g	mm	€	M0 KERN	€	DKD KERN	€
FOB 1.5K0.5*	1,5	0,5	-	-	A	175,-	-	-	963-127	72,-
FOB 3K1*	3	1	-	-	A	180,-	-	-	963-127	72,-
FOB 6K2*	6	2	-	-	A	175,-	-	-	963-128	88,-
FOB 15K1L*	15	1	-	-	B	320,-	-	-	963-128	88,-
FOB 30K2L*	30	2	-	-	B	320,-	-	-	963-128	88,-
FOB 1K1M	1	1	1	20	A	195,-	965-227	55,-	963-127	72,-
FOB 7K-4NL	5 7,5	0,5 1	-	-	C	230,- ¹	-	-	963-128	88,-
FOB 10K-3NL	8 15	1 2	-	-	C	230,- ¹	-	-	963-128	88,-
FOB 30K-3NL	16 30	2 5	-	-	C	230,- ¹	-	-	963-128	88,-

* ONLY WHILE STOCKS LAST !



Ideal for food industry, thanks to its IP65 protection and special checkweighing display, now also with EC type approval [M]

Features

- **Suitable for the ever-increasing hygienic requirements** in the food industry
- 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 rear of the balance
- **Compact size**, practical for small spaces
- **3 Innovative weighing with tolerance range (Checkweighing):** 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

- **High mobility:** 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
- Weighing plate dimensions, stainless steel, W×D×H 260×200×16,2 mm
- Overall dimensions W×D×H 260×200×16,2 mm
- Net weight approx. 3,2 kg
- Permissible ambient temperature -10 °C/40 °C

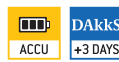
Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN RFB-A01S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 50 h without backlight, charging time approx. 12 h, KERN WTB-A01N, **€ 35,-**
- **4 Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., W×D×H 370×240×20 mm, KERN RFS-A02, **€ 55,-**
- **5 Sturdy transport case** to protect and store the scale, dimensions W×D×H 510×360×220 mm, KERN RFB-A02, **€ 115,-**

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimal load [Min] g	Price excl. of VAT ex works €	Options			
						Verification		DAkkS Calibr. Certificate	
KERN						KERN	€	KERN	€
WTB 1K-4N	1,5	0,2	-	-	220,-	-	-	963-127	72,-
WTB 3K-4N	3	0,5	-	-	220,-	-	-	963-127	72,-
WTB 6K-3N	6	1	-	-	220,-	-	-	963-128	88,-
WTB 10K-3N	15	2	-	-	220,-	-	-	963-128	88,-
WTB 30K-3N	30	5	-	-	220,-	-	-	963-128	88,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.
Verification at the factory, we need to know the full address of the location of use.

WTB 1K-4NM	1,5	0,5	0,5	10	255,-	965-227	55,-	963-127	72,-
WTB 3K-3NM	3	1	1	20	255,-	965-227	55,-	963-127	72,-
WTB 6K-3NM	6	2	2	40	255,-	965-228	70,-	963-128	88,-
WTB 10K-3NM	15	5	5	100	255,-	965-228	70,-	963-128	88,-
WTB 30K-2NM	30	10	10	200	255,-	965-228	70,-	963-128	88,-

Price reduction



All-round bench scale, protected by stainless steel and IP65 rating, now also with EC type approval [M]

Features

- **1 Ideal for the increased hygienic requirements** in the food, pharmaceutical and chemical industries
- Your support in a **HACCP**-compliant quality system
- **2 Ideal for the robust industrial applications**
- **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.)
- **Stainless steel design** of the housing and weighing plate. Its smooth surfaces make it simple to clean
- **Recessed grips on the underside** of the scale for easy transportation

- **3 Protection against dust and water splashes IP65** (only when using rechargeable battery pack)

Technical data

- Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, W×D 230×190 mm
- Overall dimensions W×D×H 230×300×130 mm
- Rechargeable battery pack internal, operating time up to 50 h without backlight, charging time approx. 12 h
- Net weight approx. 4,0 kg
- Permissible ambient temperature
KERN FFN-N: 0 °C/40 °C
KERN FFN-NM: -10 °C/40 °C

Accessories

- **Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., W×D×H 370×240×20 mm, KERN RFS-A02, € 55,-

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimal load [Min] g	Price excl. of VAT ex works €	Options			
						Verification		DAkkS Calibr. Certificate	
KERN						M KERN	€	DKD KERN	€
FFN 1K-4N	1,5	0,2	-	-	260,-	-	-	963-127	72,-
FFN 3K0.5IPN	3	0,5	-	-	255,-	-	-	963-127	72,-
FFN 6K1IPN	6	1	-	-	255,-	-	-	963-128	88,-
FFN 15K2IPN	15	2	-	-	255,-	-	-	963-128	88,-
FFN 25K5IPN	25	5	-	-	255,-	-	-	963-128	88,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.
Verification at the factory, we need to know the full address of the location of use.

FFN 1K-4NM	1,5	0,5	0,5	10	285,-	965-227	55,-	963-127	72,-
FFN 3K1IPM	3	1	1	20	285,-	965-227	55,-	963-127	72,-
FFN 6K2IPM	6	2	2	40	285,-	965-228	70,-	963-128	88,-
FFN 15K5IPM	15	5	5	100	285,-	965-228	70,-	963-128	88,-
FFN 25K10IPM	25	10	10	200	285,-	965-228	70,-	963-128	88,-

Price reduction



Robust, space-saving bench scale, protected by stainless steel and IP68 rating – now with EC type approval [M]

Features

- **Suitable for the ever-increasing hygienic requirements** in the food industry
- Your support in a **HACCP**-compliant quality system
- **Ideal for the robust industrial applications**
- **Protection against dust and water splashes IP68**, ideal for harsh ambient conditions. Submersion in water actually possible
- **Stainless steel design** of the housing and weighing plate. Its smooth surfaces make it simple to clean
- **Very fast display**: steady weight values within 2 s
- **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.)

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

Technical data

- Large backlit LCD display (FXN-M: green), digit height 25 mm
- Dimensions weighing surface, stainless steel, W×D 236×195 mm
- Overall dimensions W×D×H 240×280×120 mm
- **Ready for use**: Batteries included, 4×1.5 V Size D, operating time up to 200 h (FXN-M: up to 500 h), AUTO-OFF function to preserve the battery
- Net weight approx. 3,2 kg
- Permissible ambient temperature KERN FXN-N: 0 °C/40 °C
KERN FXN-M: -10 °C/40 °C

Accessories

- **2 Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., W×D×H 370×240×20 mm, KERN RFS-A02, € 55,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model	Weighing range [Max] kg	Readout [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								KERN		DKD KERN
FXN 3K-4N	3	0,5	-	-	5	280,-	-	-	963-127	72,-
FXN 6K-3N	6	1	-	-	10	280,-	-	-	963-128	88,-
FXN 10K-3N	15	2	-	-	20	280,-	-	-	963-128	88,-
FXN 30K-3N	30	5	-	-	50	280,-	-	-	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.										
Verification at the factory, we need to know the full address of the location of use.										
FXN 3K-3M	3	1	1	20	5	340,-	965-227	55,-	963-127	72,-
FXN 6K-3M	6	2	2	40	10	340,-	965-228	70,-	963-128	88,-
FXN 10K-3M	15	5	5	100	20	340,-	965-228	70,-	963-128	88,-
FXN 30K-2M	30	10	10	200	50	340,-	965-228	70,-	963-128	88,-

New model Price reduction



Stainless steel platform scales with IP65/67 protection, also with XL platform or EC type approval [M]

Features

• Ideal for the robust industrial applications

- **1 Platform:** made entirely of stainless steel, silicone-coated steel load cell, protection against dust and water splashes IP67
- **2 Display device:** stainless steel, protection against dust and water splashes IP65, (only when using rechargeable battery pack)
- **3 SFB-H: Column,** standard, for models with weighing plate size 300×240 mm: Column height approx. 200 mm

400×300 mm: Column height approx. 200 mm

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of display device W×D×H 266×165×96 mm
- Cable length of display device approx. 3 m
- Rechargeable battery pack internal, operating time up to 35 h without backlight, charging time approx. 12 h
- Permissible ambient temperature -10 °C/40 °C

Accessories

- **Data interface RS-232,** interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KFN-A01, **€ 95,-**
- **Stand** to be screwed onto the platform, height of stand approx. 600 mm, KERN SFB-A01, **€ 75,-**
- **4 Stand** to elevate display device, height of stand approx. 800 mm, KERN BFS-A07, **€ 120,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



SFB-M/
SFB-HM

Model	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimal load [Min] g	Net weight approx. kg	Weighing plate W×D mm	Price excl. of VAT ex works €	Options			
								Verification	€	DAKKS Calibr. Certificate	€
KERN								M KERN		DKD KERN	
SFB 50K-3XL	50	5	-	-	14	500×400	910,-	-	-	963-128	88,-
SFB 100K-2L*	100	10	-	-	14	500×400	910,-	-	-	963-129	105,-
SFB 100K-2XL	100	10	-	-	26	650×500	1140,-	-	-	963-129	105,-
SFB 200K-2XL*	200	20	-	-	26	650×500	1160,-	-	-	963-129	105,-
with elevated display											
SFB 10K1HIP	10	1	-	-	8	300×240	670,-	-	-	963-128	88,-
SFB 20K2HIP	20	2	-	-	8	300×240	670,-	-	-	963-128	88,-
SFB 50K5HIP	50	5	-	-	8	300×240	670,-	-	-	963-128	88,-
SFB 50K5LHIP	50	5	-	-	8	400×300	820,-	-	-	963-128	88,-
SFB 100K10HIP	100	10	-	-	14	400×300	810,-	-	-	963-129	105,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.											
Verification at the factory, we need to know the full address of the location of use.											
SFB 100K-2HM	150	50	50	1000	13	400×300	790,-	965-229	93,-	963-129	105,-
SFB 100K-2LM	150	50	50	1000	24	500×400	1010,-	965-229	93,-	963-129	105,-
SFB 100K-2XLM	150	50	50	1000	24	650×500	1170,-	965-229	93,-	963-129	105,-
SFB 300K-1LM*	300	100	100	2000	26	650×500	1170,-	965-229	93,-	963-129	105,-
with elevated display											
SFB 15K5HIPM	15	5	5	100	8	300×240	710,-	965-228	70,-	963-128	88,-
SFB 30K10HIPM	30	10	10	200	8	300×240	710,-	965-228	70,-	963-128	88,-
SFB 60K20LHIPM	60	20	20	400	14	400×300	810,-	965-229	93,-	963-129	105,-
SFB 60K-2XLM	60	20	20	400	16	500×400	1010,-	965-229	93,-	963-129	105,-

Price reduction

* ONLY WHILE STOCKS LAST !

PREMIUM



- Dimensions of display device
W×D×H 232×170×80 mm
- Cable length of display device approx. 2,5 m

Accessories

- **Stand** to elevate display device, must be ordered at purchase, for models with weighing plate size
A–**D** height of stand approx. 200 mm, KERN IXS-A02, **€ 70,-**
B–**D** height of stand approx. 400 mm, KERN IXS-A03, **€ 75,-**
C–**D** height of stand approx. 600 mm, KERN IXS-A04, **€ 85,-**
- **Rechargeable battery pack internal**, operating time up to 80 h without backlight, charging time approx. 12 h, must be ordered at purchase, KERN GAB-A04, **€ 40,-**
- **Data interface RS-232**, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KXS-A04, **€ 100,-**
- **Data interface RS-485**, must be ordered at purchase, KERN KXS-A01, **€ 145,-**
- **Foot switch**, must be ordered at purchase, KERN KXS-A03, **€ 130,-**
- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification, KERN KXS-A02, **€ 170,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

Features

- **Ideal for the robust industrial applications**
- **1 Platform:** made entirely of stainless steel, silicone-coated steel load cell, protection against dust and water splashes IP68. Substruction in wing design, extremely resistant to bending. Earthed weighing plate, to reduce static charge
- **2 Display device:** stainless steel, protection against dust and water splashes IP68, integrated power supply
- **Suitable for the ever-increasing hygienic requirements** in the food industry
- **Wall mount** for display device, standard

- **Superior display size:** digit height 55 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- Thanks to **interfaces** such as RS-232, RS-485 and Bluetooth (optional) the scale can easily be connected to existing networks and facilitates the data exchange between the scale and printer

Technical data

- Large backlit LCD display, digit height 55 mm
- Weighing plate dimensions, stainless steel W×D×H
A 300×240×86 mm
B 400×300×89 mm
C 500×400×123 mm
D 650×500×133,5 mm

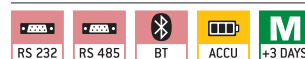
STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Readout [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	€
SXS 6K-3M	3 6	1 2	1 2	20 40	6	A	690,-	965-228	70,-	963-128	88,-
SXS 10K-3M	6 15	2 5	2 5	40 100	7	A	690,-	965-228	70,-	963-128	88,-
SXS 10K-3LM	6 15	2 5	2 5	40 100	12	B	850,-	965-228	70,-	963-128	88,-
SXS 30K-2M	15 30	5 10	5 10	100 200	12	B	860,-	965-228	70,-	963-128	88,-
SXS 30K-2LM	15 30	5 10	5 10	100 200	22	C	1160,-	965-228	70,-	963-128	88,-
SXS 60K-2M	30 60	10 20	10 20	200 400	14	B	850,-	965-229	93,-	963-129	105,-
SXS 60K-2LM	30 60	10 20	10 20	200 400	22	C	1160,-	965-229	93,-	963-129	105,-
SXS 100K-2M	60 150	20 50	20 50	400 1000	24	C	1160,-	965-229	93,-	963-129	105,-
SXS 100K-2LM	60 150	20 50	20 50	400 1000	38	D	1450,-	965-229	93,-	963-129	105,-
SXS 300K-2M	150 300	50 100	50 100	1000 2000	36	D	1450,-	965-229	93,-	963-129	105,-

Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d].

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

Verification at the factory, we need to know the full address of the location of use.

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, 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.

Even the KERN entry level 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 on page 191–193

Quick-Finder Price computing scales

Read-out [d] g	Weighing range [Max] kg	Model	Price excl. of VAT ex works €	Page	DAYS	M	CAL EXT	RS 232	MEMORY	IP	ACCU
		KERN			For an explanation on the pictos, see the front flap						
1 2	3 6	RIB 6K-3M	210,-	68	1	○	●		●		○
1 2	3 6	RIB 6K-3HM	240,-	68	1	○	●		●		○
1 2	3 6	RPB 6K1DM	215,-	69	1	○	●	●	●		○
1 2	3 6	RPB 6K1DHM	245,-	69	1	○	●	●	●		○
1 2	3 6	RFE 6K3M	295,-	70	1	○	●	●	●	●	○
2 5	6 15	RIB 10K-3M	210,-	68	1	○	●		●		○
2 5	6 15	RIB 10K-3HM	240,-	68	1	○	●		●		○
2 5	6 15	RPB 15K2DM	215,-	69	1	○	●	●	●		○
2 5	6 15	RPB 15K2DHM	245,-	69	1	○	●	●	●		○
2 5	6 15	RFE 15K3M	295,-	70	1	○	●	●	●	●	○
5 10	15 30	RIB 30K-2M	210,-	68	1	○	●		●		○
5 10	15 30	RIB 30K-2HM	240,-	68	1	○	●		●		○
5 10	15 30	RPB 30K5DM	215,-	69	1	○	●	●	●		○
5 10	15 30	RPB 30K5DHM	245,-	69	1	○	●	●	●		○
5 10	15 30	RFE 30K3M	295,-	70	1	○	●	●	●	●	○

■ News 2018

● = standard ○ = option



- Intuitive operation
- Large number of item memories
- Little space requirements
- Mains operation and rechargeable battery pack possible
- 4. Display for TARE or PRE-TARE value
- Second display which can be fitted on the back of the balance or on a column

Lisa Mayer

Product specialist Price computing scales

Tel. +49 [0] 7433 9933-219
Fax +49 [0] 7433 9933-29219
lisa.mayer@kern-sohn.com



KERN RFE



Robust retail scale with large item memory, user-friendly handling and EC type approval [M]

Features

- **1 KERN RIB-HM: Elevated display backlit**, height of stand approx. 530 mm, must be ordered at purchase
- **2 KERN RIB-M: Second display** on the rear of the balance
- **Three displays** for weight display (verifiable), reference weight, total weight
- **Calculation of change**
- **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, W×D 294×225 mm
- Overall dimensions W×D×H
KERN RIB-M: 325×400×115 mm
KERN RIB-HM: 325×400×400 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, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 80 h without backlight, charging time approx. 14 h, KERN GAB-A04, **€ 40,-**
- **3 Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., W×D×H 370×240×20 mm, KERN RFS-A02, **€ 55,-**

Application examples

- retail shops
- market places
- farm shops
- pick your own fruit and vegetable sales

Note: Official verification duty for commercial trade

STANDARD





OPTION



FACTORY



Model	Weighing range	Readout	Verification value	Minimum load	Price excl. of VAT ex works €	Options			
						Verification		DAkkS Calibr. Certificate	
						 KERN	€	 KERN	€
KERN	[Max] kg	[d] g	[e] g	[Min] g					
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d].									
RIB 6K-3M	3 6	1 2	1 2	20 40	210,-	965-228	70,-	963-128	88,-
RIB 10K-3M	6 15	2 5	2 5	40 100	210,-	965-228	70,-	963-128	88,-
RIB 30K-2M	15 30	5 10	5 10	100 200	210,-	965-228	70,-	963-128	88,-
with elevated display									
RIB 6K-3HM	3 6	1 2	1 2	20 40	240,-	965-228	70,-	963-128	88,-
RIB 10K-3HM	6 15	2 5	2 5	40 100	240,-	965-228	70,-	963-128	88,-
RIB 30K-2HM	15 30	5 10	5 10	100 200	240,-	965-228	70,-	963-128	88,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.
Verification at the factory, we need to know the full address of the location of use.

FACE
LIFT



Sim. to illustration



Retail scale with memories for item prices

Features

- **NEW:** modern, ergonomic design and a housing which is even more compact, supporting efficient operation and saving space
- **1** KERN RPB-HM: **Elevated display backlit**, revolving on column, height of stand approx. 480 mm, must be ordered at purchase
- **2** KERN RPB-M: **Second display** on the rear of the balance
- **Three displays** for weight display (verifiable), reference weight, total weight
- **Calculation of change**
- **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

- **3 High mobility:** 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: 270×310×65 mm
KERN RPB-HM: 270×370×490 mm
- Net weight
KERN RPB-M: approx. 3,5 kg
KERN RPB-HM: approx. 4,2 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN CFS-A02S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 80 h without backlight, charging time approx. 14 h, KERN GAB-A04, **€ 40,-**
- **Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., W×D×H 370×240×20 mm, KERN RFS-A02, **€ 55,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

Application examples

- retail shops
- market places
- farm shops
- pick your own fruit and vegetable sales

Note: Official verification duty for commercial trade

STANDARD

CAL EXT

MEMORY

RS 232

UNIT

RECIPE

MULTI

DMS

1 DAY

OPTION



ACCUR

DAKKS

FACTORY

M

+3 DAYS

Model	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Price excl. of VAT ex works €	Options			
						Verification		DAkkS Calibr. Certificate	
KERN							€		€
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d].									
RPB 6K1DM	3 6	1 2	1 2	20	225,-	965-228	70,-	963-128	88,-
RPB 15K2DM	6 15	2 5	2 5	40	225,-	965-228	70,-	963-128	88,-
RPB 30K5DM	15 30	5 10	5 10	100	225,-	965-228	70,-	963-128	88,-
with elevated display									
RPB 6K1DHM	3 6	1 2	1 2	20	250,-	965-228	70,-	963-128	88,-
RPB 15K2DHM	6 15	2 5	2 5	40	250,-	965-228	70,-	963-128	88,-
RPB 30K5DHM	15 30	5 10	5 10	100	250,-	965-228	70,-	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.									

NEW



Compact portion scale with 2 XXL displays – weight, unit price, total price and TARE value at a glance

Features

- Ideal as a salad scale, sweet scale, check-weigher, portion scale
- **Large LCD display with four displays** for weight display (verifiable), unit price, total price and stored TARE or PRE-TARE value
- **TARE value display:** this shows a TARE or PRE-TARE value stored in a PLU, which enables this value to be stored in a legally binding way in accordance with the Weights and Measures Act
- **1 Second display** on the rear of the balance
- **2 Column** to elevate the display as standard, can be easily fitted or removed by the user. The power cable for the second display can be stored in the folding column which is hygienic and gives a tidy appearance. Column height approx. 395 mm
- **3** Thanks to easily-understandable, universal symbols e.g. for weight, TARE value, unit price, total price this balance can also be understood and operated easily all over the world

- **Calculation of change**
- **4 Direct price keys** for frequently recurring article prices
- **Memory (PLU) for 100 article prices**
- **Item description can be entered,** stored and shown on the display **in clear text**
- **Unit price can be switched** from €/kg to €/100 g, €/piece
- **Auto-clear-key:** Unit price entry is automatically set to zero when scale is unloaded
- **Headers and footers of the printout** can be programmed directly on the balance
- **High mobility:** 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

Technical data

- Large backlit LCD display, digit height 20 mm
- Dimensions weighing surface, stainless steel, W×D 230×300 mm
- Overall dimensions W×D×H 320×450×130 mm
- Net weight approx. 4,2 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- **Label printer** to print out weighing results on thermal labels, ASCII-capable, further details see *Accessories*, KERN YKE-01, € 590,-

Application examples

- cafeterias, restaurants, motorway service stations
- retail shops
- market places
- farm shops
- pick your own fruit and vegetable sales

Note: Official verification duty for commercial trade

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum load [Min] g	Price excl. of VAT ex works €	Options			
						Verification		DAkkS Calibr. Certificate	
KERN							€		€
RFE 6K3M	3 6	1 2	1 2	20	295,-	965-228	70,-	963-128	88,-
RFE 15K3M	6 15	2 5	2 5	40	295,-	965-228	70,-	963-128	88,-
RFE 30K3M	15 30	5 10	5 10	100	295,-	965-228	70,-	963-128	88,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.
Verification at the factory, we need to know the full address of the location of use.

Counting scales/Counting systems

Interesting facts about density determination

Smallest part weight when counting

Smallest piece the scale will accept for piece counting and piece count display. 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 give 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 ranges of bench counting scales are often not sufficient to count large quantities, units, palletized items, etc. Here high-performance counting systems come into operation, as these combine a high-precision reference scale with a high-capacity bulk scale.

Special stocktaking scales FKA and FKC

For demanding quantity measurement, e.g. as part of a stocktake. With its easy-to-use touch screen, special stock-taking software and PC connection this makes it quicker to collect and analyse stock levels, please inquire.

► See the glossary on page 191–193



- Three displays for: weight display (verifiable), reference weight, total count
- Target quantity or target weight can be programmed, e.g. for Checkweighing
- High mobility: thanks to battery operation and compact, flat construction, it is suitable for use in several locations (production, warehouse, dispatch department,...)

Tanja Jetter

Product specialist Counting scales

Tel. +49 [0] 7433 9933-168








Fax +49 [0] 7433 9933-29168

tanja.jetter@kern-sohn.com










KERN CPB

Quick-Finder Counting scales/Counting systems

Read-out [d] g	Weighing range [Max] kg	Counting resolution Points	Model KERN	Price excl. of VAT ex works €	Page	 DAYS	 M	 CAL EXT	 MEMORY	 RS 232	 DUAL	 ACCU
For an explanation on the pictos, see the front flap												
0,001	0,3	60.000	CFS 300-3	360,-	76	1		●	●	●	●	○
0,001	0,36	360.000	CKE 360-3	310,-	77	1		●		●		○
0,01	2	200.000	CKE 2000-2	350,-	77	1		●		●		○
0,01	3	60.000	CFS 3K-5	310,-	76	1		●	●	●	●	○
0,01	3,6	360.000	CKE 3600-2	370,-	77	1		●		●		○
0,02	4	200.000	CDS 4K0.02	560,-	79	1		●		●		○
0,02	6	300.000	CKE 6K0.02	520,-	77	1		●		●		○
0,05	8	160.000	CKE 8K0.05	480,-	77	1		●		●		○
0,05	15	300.000	CDS 15K0.05	490,-	79	1		●		●		○
0,05	16	320.000	CKE 16K0.05	590,-	77	1		●		●		○
0,1	6	60.000	CPB 6K0.1N	235,-	75	1		●		●		○
0,1	6	60.000	CFS 6K0.1	270,-	76	1		●	●	●	●	○
0,1	16	160.000	CKE 16K0.1	480,-	77	1		●		●		○
0,1	16	160.000	CDS 16K0.1	460,-	79	1		●		●		○
0,1	30	300.000	CDS 30K0.1	560,-	79	1		●		●		○
0,1	30	300.000	CDS 30K0.1L	710,-	79	1		●		●		○
0,1	36	360.000	CKE 36K0.1	540,-	77	1		●		●		○
0,1 0,2	3 6	60.000	IFS 6K-4S	390,-	78	1		●	●	●	●	○
0,1 0,2	6 15	75.000	IFS 10K-4	405,-	78	1		●	●	●		○
0,2	3	30.000	CXB 3K0.2	230,-	74	1		●				●
0,2	15	60.000	CPB 15K0.2N	235,-	75	1		●		●		○
0,2	15	75.000	CFS 15K0.2	270,-	76	1		●	●	●	●	○
0,2	36	180.000	CDS 36K0.2L	710,-	79	1		●		●		○
0,2	60	300.000	CDS 60K0.2	710,-	79	1		●		●		○
0,2	65	325.000	CKE 65K0.2	540,-	77	1		●		●		○
0,2 0,5	12 30	60.000	IFS 30K0.2DL	450,-	78	1		●	●	●		○
0,5	6	30.000	CXB 6K0.5	230,-	74	1		●				●
0,5	30	60.000	CPB 30K0.5N	235,-	75	1		●		●		○
0,5	30	60.000	CFS 30K0.5	270,-	76	1		●	●	●	●	○
0,5	65	130.000	CKE 65K0.5	500,-	77	1		●		●		○
0,5 1	30 60	60.000	IFS 60K0.5D	450,-	78	1		●	●	●		○
0,5 1	30 60	60.000	IFS 60K0.5DL	550,-	78	1		●	●	●		○
1	3	30.000	CXB 3K1NM	245,-	74	1	○	●				●
1	15	30.000	CXB 15K1	230,-	74	1		●				●
1	50	50.000	CFS 50K-3	310,-	76	1		●	●	●	●	○
1 2	3 6	60.000	CPB 6K1DM	235,-	75	1	○	●		●		○
1 2	3 6	60.000	IFS 6K-3SM	350,-	78	1	○	●	●	●		○
1 2	75 150	60.000	IFS 100K-3	630,-	78	1		●	●	●		○
1 2	75 150	60.000	IFS 100K-3L	790,-	78	1		●	●	●		○
2	6	30.000	CXB 6K2NM	245,-	74	1	○	●				●
2	6	1.200.000	CCS 6K-6	670,-	80	2		●	●	●	●	○
2	30	30.000	CXB 30K2	230,-	74	1		●				●
2 5	6 15	60.000	CPB 15K2DM	235,-	75	1	○	●		●		○
2 5	6 15	75.000	IFS 10K-3M	410,-	78	1	○	●	●	●		○
2 5	6 15	75.000	IFS 10K-3LM	460,-	78	1	○	●	●	●		○
2 5	150 300	60.000	IFS 300K-3	790,-	78	1		●	●	●		○
5	15	30.000	CXB 15K5NM	245,-	74	1	○	●				●
5 10	15 30	60.000	CPB 30K5DM	235,-	75	1	○	●		●		○
5 10	15 30	60.000	IFS 30K-3M	460,-	78	1	○	●	●	●		○
10	30	30.000	CXB 30K10NM	245,-	74	1	○	●				●
10	30	300.000	CCS 30K0.1.	570,-	80	1		●	●	●	●	○
10	30	600.000	CCS 30K0.01.	580,-	80	2		●	●	●	●	○
10 20	30 60	60.000	IFS 60K-2M	460,-	78	1	○	●	●	●		○
10 20	30 60	60.000	IFS 60K-2LM	550,-	78	1	○	●	●	●		○
15	15	3.000.000	CCS 10K-6	710,-	80	2		●	●	●	●	○
20	60	600.000	CCS 60K0.1.	550,-	80	2		●	●	●	●	○
20	60	1.200.000	CCS 60K0.01.	580,-	80	2		●	●	●	●	○
20	60	600.000	CCS 60K0.1L.	610,-	80	1		●	●	●	●	○
20	60	1.200.000	CCS 60K0.01L.	660,-	80	2		●	●	●	●	○
20 50	60 150	60.000	IFS 100K-2M	550,-	78	1	○	●	●	●		○
20 50	60 150	60.000	IFS 100K-2LM	720,-	78	1	○	●	●	●		○
50	150	1.500.000	CCS 150K0.1.	610,-	80	1		●	●	●	●	○
50	150	3.000.000	CCS 150K0.01	690,-	80	2		●	●	●	●	○
50	150	1.500.000	CCS 150K0.1L	860,-	80	2		●	●	●	●	○
50	150	3.000.000	CCS 150K0.01L	900,-	80	2		●	●	●	●	○
50 100	150 300	60.000	IFS 300K-2M	720,-	78	1	○	●	●	●		○
100	300	3.000.000	CCS 300K0.1	860,-	80	2		●	●	●	●	○
100	300	6.000.000	CCS 300K0.01	900,-	80	2		●	●	●	●	○
200	600	12.000.000	CCS 600K-2U	1550,-	80	5		●	●	●	●	○
200	600	12.000.000	CCS 600K-2	1600,-	80	5		●	●	●	●	○
200	600	12.000.000	CCS 600K-2L	1990,-	80	5		●	●	●	●	○
500	1500	15.000.000	CCS 1T-1U	1480,-	80	5		●	●	●	●	○

Quick-Finder Counting scales/Counting systems

Read-out [d] g	Weighing range [Max] kg	Counting resolution Points	Model KERN	Price excl. of VAT ex works €	Page							
						For an explanation on the pictos, see the front flap						
500	1500	15.000.000	CCS 1T-1	1550,-	80	5		●	●	●	●	○
500	1500	15.000.000	CCS 1T-1L	1930,-	80	5		●	●	●	●	○
1000	3000	30.000.000	CCS 3T-1	1950,-	80	5		●	●	●	●	○
1000	3000	30.000.000	CCS 3T-1L	2150,-	80	5		●	●	●	●	○

■ News 2018

● = standard ○ = option



Note: Official verification duty for commercial trade

Entry level model into professional counting, also with EC type approval [M], counting resolution of 30,000 points

Features

- **Precise counting:** 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
- **Audible Fill-to-target:** target quantity or target weight can be programmed, e. g. for checkweighing. When the target value is reached, a signal will sound
- **Counting results memory:** adds up all individual piece counts, result is shown in total weight and total pieces
- **Energy management:** Backlight turns off after 5 sec

- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **Two balances in one:** 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
- Dimensions housing W×D×H 300×330×110 mm
- Rechargeable battery pack internal, 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, € 40,-
- **Rechargeable battery pack internal**, operating time up to 200 h without backlight, charging time approx. 8 h, KERN GAB-A04, € 40,-

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Readout [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		DAKKS Calibr. Certificate	
KERN								M KERN	€	DKD KERN	€
CXB 3K0.2	3	0,2	-	-	1	30.000	230,-	-	-	963-127	72,-
CXB 6K0.5	6	0,5	-	-	2	30.000	230,-	-	-	963-128	88,-
CXB 15K1	15	1	-	-	5	30.000	230,-	-	-	963-128	88,-
CXB 30K2	30	2	-	-	10	30.000	230,-	-	-	963-128	88,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
CXB 3K1NM	3	1	1	20	1	30.000	245,-	965-227	55,-	963-127	72,-
CXB 6K2NM	6	2	2	40	2	30.000	245,-	965-228	70,-	963-128	88,-
CXB 15K5NM	15	5	5	100	5	30.000	245,-	965-228	70,-	963-128	88,-
CXB 30K10NM	30	10	10	200	10	30.000	245,-	965-228	70,-	963-128	88,-



Note: Official verification duty for commercial trade

Professional model, also with EC type approval [M],
counting resolution up to 60,000 points

Features

- **Precise counting:** 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
- **Audible Fill-to-target:** target quantity or target weight can be programmed, e. g. for checkweighing. When the target value is reached, a signal will sound
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels

- **High mobility:** thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- **Two balances in one:** 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 315×350×105 mm
- Net weight approx. 3,2 kg
- Permissible ambient temperature 0 °C/40 °C

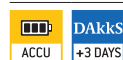
Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN CFS-A02S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 90 h without backlight, charging time approx. 12 h, KERN GAB-A04, **€ 40,-**
- **Signal lamp** for visual support of weighing with tolerance range, KERN CFS-A03, **€ 250,-**
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp or barcode reader and printer, KERN CFS-A04, **€ 35,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD





OPTION



FACTORY



Model	Weighing range [Max] kg	Readout [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		DAkkS Calibr. Certificate	
								 KERN	€	 KERN	€
KERN											
CPB 6K0.1N	6	0,1	-	-	1	60.000	235,-	-	-	963-128	88,-
CPB 15K0.2N	15	0,2	-	-	2,5	60.000	235,-	-	-	963-128	88,-
CPB 30K0.5N	30	0,5	-	-	5	60.000	235,-	-	-	963-128	88,-
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d]											
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.											
Verification at the factory, we need to know the full address of the location of use.											
CPB 6K1DM	3 6	1 2	1 2	20	1	60.000	235,-	965-228	70,-	963-128	88,-
CPB 15K2DM	6 15	2 5	2 5	40	2,5	60.000	235,-	965-228	70,-	963-128	88,-
CPB 30K5DM	15 30	5 10	5 10	100	5	60.000	235,-	965-228	70,-	963-128	88,-



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

Features

- **Memory (PLU)** for 100 items with additional text, reference weight and tare weight, e.g. of a container
- **Precise counting:** 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
- **Weighing with tolerance range (checkweighing):** a visual and audible signal helps with portioning, dispensing or grading
- **Audible Fill-to-target:** target quantity or target weight can be programmed, e. g. for checkweighing. When the target value is reached, a signal will sound
- **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 KERN
- **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 300×225 mm, see larger picture
 - C** W×D 365×240 mm
- Overall dimensions W×D×H
 - A** 320×350×180 mm (incl. draught shield)
 - B** 320×350×125 mm
 - C** 365×240×125 mm
- Permissible ambient temperature 0 °C/40 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, for models with weighing plate size **A**, **B**, KERN CFS-A02S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 70 h without backlight, charging time approx. 14 h, KERN GAB-A04, **€ 40,-**
- **Signal lamp** for visual support of weighing with tolerance range, KERN CFS-A03, **€ 250,-**
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp or barcode reader and printer, KERN CFS-A04, **€ 35,-**
- **WLAN interface** for wireless connection of the balance to networks and WLAN capable devices, such as tablets, laptops or smart-phones, must be ordered at purchase, KERN CFS-A05, **€ 120,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

CAL EXT

MEMORY

RS 232

DUAL

SUM

TOL

MULTI

DMS

1 DAY

OPTION

ACCU

DAKKS

+3 DAYS

FACTORY

WLAN

Model	Weighing range	Readout	Smallest part weight	Counting resolution	Net weight	Weighing plate	Price	Options	
								excl. of VAT	ex works
	[Max]	[d]	[Normal]	Points	approx.		€	DAKKS Calibr. Certificate	
KERN	kg	g	g/piece		kg			DKD KERN	€
CFS 300-3	0,3	0,001	0,05	60.000	2,6	A	360,-	963-127	72,-
CFS 3K-5	3	0,01	0,5	60.000	3,4	B	310,-	963-127	72,-
CFS 6K0.1	6	0,1	1	60.000	3,4	B	270,-	963-128	88,-
CFS 15K0.2	15	0,2	2	75.000	3,4	B	270,-	963-128	88,-
CFS 30K0.5	30	0,5	5	60.000	3,4	B	270,-	963-128	88,-
CFS 50K-3	50	1	10	50.000	4,4	C	310,-	963-128	88,-



Easy to use, self-explanatory counting scale with laboratory accuracy, counting resolution up to 360,000 points

Features

- **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 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 or 20 pieces)
 - 3 Confirm the selected reference quantity by pressing the key (5, 10 or 20)
 - 4 Pour in the goods to be counted. The number of pieces will immediately be shown in the display
- **Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value

- **Two balances in one:** Changes from counting mode to weighing mode at the touch of a key
- **Protective working cover** included with delivery

Technical data

- Large backlit LCD display
 - A, B digit height 9 mm
 - C digit height 18 mm
- Dimensions weighing surface
 - A Ø 81 mm, plastic
 - B W×D 150×170 mm, stainless steel
 - C W×D 340×240 mm, stainless steel
- Overall dimensions W×D×H
 - A, B 167×250×85 mm
 - C 350×390×120 mm
- Optional battery operation, 6×1.5 V Size C not included, operating time up to 40 h, for models with weighing plate size C
- Permissible ambient temperature 10 °C/40 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, for models with weighing plate size
 - A KERN PCB-A02S05, € 40,-
 - B KERN PCB-A05S05, € 40,-
 - C KERN FKB-A02S05, € 40,-
- **Rechargeable battery pack external**, operating time up to 30 h without backlight, charging time approx. 10 h, for models with weighing plate size A, B, KERN KS-A01, € 180,-
- **Rechargeable battery pack internal**, operating time up to 30 h without backlight, charging time approx. 10 h, for models with weighing plate size A, B, KERN KB-A01N, € 50,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model	Weighing range [Max] kg	Readout [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								DKD KERN	€
CKE 360-3	0,36	0,001	0,01	360.000	1	A	310,-	963-127	72,-
CKE 2000-2	2	0,01	0,1	200.000	1,8	B	350,-	963-127	72,-
CKE 3600-2	3,6	0,01	0,1	360.000	1,8	B	370,-	963-127	72,-
CKE 6K0.02	6	0,02	0,2	300.000	7	C	520,-	963-128	88,-
CKE 8K0.05	8	0,05	0,5	160.000	7	C	480,-	963-128	88,-
CKE 16K0.05	16	0,05	0,5	320.000	7	C	590,-	963-128	88,-
CKE 16K0.1	16	0,1	1	160.000	7	C	480,-	963-128	88,-
CKE 36K0.1	36	0,1	1	360.000	7	C	540,-	963-128	88,-
CKE 65K0.2	65	0,2	2	325.000	7	C	540,-	963-129	105,-
CKE 65K0.5	65	0,5	5	130.000	7	C	500,-	963-129	105,-



Industrial counting scale with convenient decimal keypad for easy data entry - now also with EC type approval [M], counting resolution up to 75,000 points

Features

- **Tough industry standard** suitable for use in harsh industrial applications
- **Ergonomic 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.
- **Precise counting:** 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** included with delivery

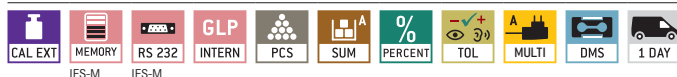
Technical data

- Large backlit LCD displays, digit height 16,5 mm
- Dimensions weighing surface, stainless steel
 - A 230×230×110 mm
 - B 300×240×110 mm
 - C 400×300×120 mm
 - D 500×400×140 mm
 - E 650×500×140 mm
- 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**, scope of delivery: 5 items, KERN KFB-A02S05, € 40,-
- **Stand** to elevate display device height of stand approx. 330 mm, KERN IFB-A01, € 50,-
Column height approx. 600 mm, for models with weighing plate size B, C, KERN IFB-A02, € 60,-
- **Rechargeable battery pack internal**, operating time up to 40 h, without backlight, charging time approx. 12 h, must be ordered at purchase, KERN KFB-A01, € 35,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD























OPTION



FACTORY



Model	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Smallest part weight [Normal] g/piece	Counting resolution Points	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
									Verification		DAkkS Calibr. Certificate	
									 KERN	€	 KERN	€
KERN												
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d]												
IFS 6K-4S 	3 6	0,1 0,2	-	1	60.000	6		390,-	-	-	963-128	88,-
IFS 10K-4	6 15	0,1 0,2	-	2	75.000	6		405,-	-	-	963-128	88,-
IFS 30K0.2DL	12 30	0,2 0,5	-	5	60.000	11		450,-	-	-	963-128	88,-
IFS 60K0.5D	30 60	0,5 1	-	10	60.000	10		450,-	-	-	963-129	105,-
IFS 60K0.5DL	30 60	0,5 1	-	10	60.000	12		550,-	-	-	963-129	105,-
IFS 100K-3	75 150	1 2	-	25	60.000	12		630,-	-	-	963-129	105,-
IFS 100K-3L	75 150	1 2	-	25	60.000	20		790,-	-	-	963-129	105,-
IFS 300K-3	150 300	2 5	-	50	60.000	22		790,-	-	-	963-129	105,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.												
Verification at the factory, we need to know the full address of the location of use.												
IFS 6K-3SM	3 6	1 2	1 2	1	60.000	6		350,-	965-228	70,-	963-128	88,-
IFS 10K-3M	6 15	2 5	2 5	2	75.000	6		410,-	965-228	70,-	963-128	88,-
IFS 10K-3LM	6 15	2 5	2 5	2	75.000	10		460,-	965-228	70,-	963-128	88,-
IFS 30K-3M	15 30	5 10	5 10	5	60.000	10		460,-	965-228	70,-	963-128	88,-
IFS 60K-2M	30 60	10 20	10 20	10	60.000	11		460,-	965-229	93,-	963-129	105,-
IFS 60K-2LM	30 60	10 20	10 20	10	60.000	13		550,-	965-229	93,-	963-129	105,-
IFS 100K-2M	60 150	20 50	20 50	25	60.000	12		550,-	965-229	93,-	963-129	105,-
IFS 100K-2LM	60 150	20 50	20 50	25	60.000	22		720,-	965-229	93,-	963-129	105,-
IFS 300K-2M	150 300	50 100	50 100	50	60.000	22		720,-	965-229	93,-	963-129	105,-

NEW New model



Easy to use industrial counting scale for heavy loads,
counting resolution up to 300,000 points

Features

- **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 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 or 20 pieces)
 - 3 Confirm the selected reference quantity by pressing the key (5, 10 or 20)
 - 4 Pour in the goods to be counted. The number of pieces will immediately be shown in the display
- **Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- **Protective working cover** included with delivery

Technical data

- Backlit LCD display, digit height 18 mm
- Dimensions weighing surface, stainless steel
 - A W×D 228×228 mm
 - B W×D 308×318 mm
 - C W×D 450×350 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, **€ 40,-**
- **Mount to fasten the display device** to the platform, KERN DE-A11N, **€ 35,-**
- **Stand** to elevate display device, height of stand approx. 480 mm, KERN DE-A10, **€ 100,-**
- **Rechargeable battery pack external**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- **Rechargeable battery pack internal**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KB-A01N, **€ 50,-**
- **Set for underfloor weighing**, consists of platform, bow, hook, only for models with weighing plate B, KERN DS-A01, **€ 200,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model	Weighing range [Max] kg	Readout [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									DKD KERN	€
CDS 4K0.02	4	0,02	0,2	200.000	6	2	A	560,-	963-127	72,-
CDS 15K0.05	15	0,05	0,5	300.000	8	2	B	490,-	963-128	88,-
CDS 16K0.1	16	0,1	1	160.000	8	2	B	460,-	963-128	88,-
CDS 30K0.1	30	0,1	1	300.000	8	2	B	560,-	963-128	88,-
CDS 30K0.1L	30	0,1	1	300.000	10	0,6	C	710,-	963-128	88,-
CDS 36K0.2L	36	0,2	2	180.000	10	0,6	C	710,-	963-128	88,-
CDS 60K0.2	60	0,2	2	300.000	10	0,6	C	710,-	963-129	105,-



Counting system to count the smallest parts in the largest quantities, counting resolution up to 999,999 points

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 range 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 (verifiable), reference weight, total pieces
- **Memory (PLU)** for 100 items with additional text, reference weight and tare weight, e.g. of a container
- **Audible Fill-to-target:** target quantity or target weight can be programmed, e. g. for checkweighing. When the target value is reached, a signal will sound

- **Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- **Protective working cover** included with delivery

Quantity scale KERN KFP-V20 IP65

- The high-accuracy quantity counting takes place on the weighing platform (= weighing bridge) KERN CCS. In this way even the smallest of parts can be counted in large volumes
- **Weighing plate stainless steel**, painted steel base, for models with weighing plate size **A**–**E**
- **Aluminium singlepoint load cell** (1×3000 e), protection against dust and water splashes IP65

Technical data

CFS

- Overall dimensions W×D×H 320×350×180 mm
- Dimensions weighing surface, stainless steel **I** CFS 300-3: Ø 80 mm
- CFS 3K-5, CFS 6K0.1: W×D 300×225 mm
- Net weight approx. 2,6 kg

KFP/KFU

- Weighing plate dimensions W×D×H, stainless steel
 - A** 230×230×110 mm
 - B** 300×240×110 mm
 - C** 400×300×128 mm
 - D** 500×400×137 mm
 - E** 650×500×135 mm
 - F** 1000×1000×80 mm
 - G** 1500×1250×80 mm
 - H** 1500×1500×80 mm
 - I** 840×1300×90 mm
- Connection cable approx.
 - A**–**E** 2,5 m
 - F**–**I** 5 m



Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN CFS-A02S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 60 h without backlight, charging time approx. 12 h, KERN GAB-A04, **€ 40,-**
- **Signal lamp** for visual support of weighing with tolerance range, KERN CFS-A03, **€ 250,-**
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp or barcode reader and printer, KERN CFS-A04, **€ 35,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

! Information on other high-capacity bulk balances, such as, for example, pallet scales, drive-through scales or floor scales is available on request, for information on other counting systems with the KERN CFS reference balance (d = 0.1 g), please refer to the website

STANDARD



OPTION




with [Max]
> 600 kg

Model KERN	Weighing range Quantity scale [Max] kg	Readout Quantity scale [d] g	Weighing plate	Weighing range Reference scale [Max] g	Readout Reference scale [d] g	Smallest part weight [Normal] g/piece	Counting resolution Points	Price excl. of VAT ex works €	Options	
									DAKKS Calibr. Certificate	
									DKD KERN	€
CCS 6K-6	6	0,2	A	300	0,001	0,05	1.200.000	670,-	962-128-127	145,-
CCS 10K-6	15	0,5	B	300	0,001	0,05	3.000.000	710,-	962-128-127	145,-
CCS 30K0.01.	30	1	C	3000	0,01	0,5	600.000	580,-	962-128-127	145,-
CCS 30K0.1.	30	1	C	6000	0,1	1	300.000	570,-	962-128-128	175,-
CCS 60K0.01.	60	2	C	3000	0,01	0,5	1.200.000	580,-	962-129-127	160,-
CCS 60K0.01L.	60	2	D	3000	0,01	0,5	1.200.000	660,-	962-129-127	160,-
CCS 60K0.1.	60	2	C	6000	0,1	1	600.000	550,-	962-129-128	175,-
CCS 60K0.1L.	60	2	D	6000	0,1	1	600.000	610,-	962-129-128	175,-
CCS 150K0.01	150	5	D	3000	0,01	0,5	3.000.000	690,-	962-129-127	160,-
CCS 150K0.01L	150	5	E	3000	0,01	0,5	3.000.000	900,-	962-129-127	160,-
CCS 150K0.1.	150	5	D	6000	0,1	1	1.500.000	610,-	962-129-128	175,-
CCS 150K0.1L	150	5	E	6000	0,1	1	1.500.000	860,-	962-129-128	175,-
CCS 300K0.01	300	10	E	3000	0,01	0,5	6.000.000	900,-	962-129-127	160,-
CCS 300K0.1	300	10	E	6000	0,1	1	3.000.000	860,-	962-129-128	175,-
CCS 600K-2	600	20	F	3000	0,01	0,5	12.000.000	1600,-	962-130-127	237,-
CCS 600K-2L	600	20	G	3000	0,01	0,5	12.000.000	1990,-	962-130-127	237,-
CCS 600K-2U	600	20	I	3000	0,01	0,5	12.000.000	1550,-	962-130-127	237,-
CCS 1T-1	1500	500	F	6000	0,1	1	15.000.000	1550,-	962-130-128	253,-
CCS 1T-1L	1500	500	G	6000	0,1	1	15.000.000	1930,-	962-130-128	253,-
CCS 1T-1U	1500	500	I	6000	0,1	1	15.000.000	1480,-	962-130-128	253,-
CCS 3T-1	3000	1000	G	6000	0,1	1	30.000.000	1950,-	962-132-128	528,-
CCS 3T-1L	3000	1000	H	6000	0,1	1	30.000.000	2150,-	962-132-128	528,-



Platform scales

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



PRECISION PLATFORM SCALES

		★★★★
		★★★
		★★
		★
	DS	







STAINLESS STEEL PLATFORM SCALES

		★★★★
		★★★
		★★
		★
► Page 65		► Page 66
	SFB	






PLATFORM SCALES WITH STAINLESS STEEL DISPLAY

		★★★★
		★★★
		★★
		★
	SFE	
	IXS	

INDUSTRIAL PLATFORM SCALES

						★★★★
						★★★
						★★
						★
	EOC		IFB		IOC	
					IFS	► Page 78
					IKT	
					IFT	

PARCEL SCALES

						★★★★
						★★★
						★★
						★
	EOA		EOE		EOB	
					EOS	
					EOB-/EOS-F	
					DE	

- USB, LAN, WLAN, Bluetooth, optional analog output
- Protected against water splashes through IP65 rating
- Robust finish
- With EC type approval [M] for applications which require verification on request



Stephan Ade
Product specialist Platform scales

Tel. +49 [0] 7433 9933 - 121
Fax +49 [0] 7433 9933 - 29121
ade@kern-sohn.com

from €

295,-











page 94

HIGH-LIGHT













KERN IOC

Quick-Finder Platform scales

Read-out [d] g	Weighing range [Max] kg	Weighing plate W×D mm	Model KERN	Price excl. of VAT ex works €	Page	<div>           </div>									
						For an explanation on the pictos, see the front flap									
0,01	3	228×228×95	DS 3K0.01S	640,-	96	1									
0,01	3	228×228×95	IKT 3K0.01S	920,-	100	1									
0,05	5	228×228×95	DS 5K0.05S	560,-	96	1									
0,05	8	308×318×75	DS 8K0.05	550,-	96	1									
0,05	8	318×308×75	IKT 8K0.05	850,-	100	1									
0,1	6	315×308×75	IKT 6K0.1	830,-	100	1									
0,1	10	228×228×95	DS 10K0.1S	530,-	96	1									
0,1	16	315×308×75	DS 16K0.1	550,-	96	1									
0,1	16	318×308×75	IKT 16K0.1	850,-	100	1									
0,1	20	308×318×75	DS 20K0.1	580,-	96	1									
0,1	30	308×318×75	DS 30K0.1	610,-	96	1									
0,1	30	450×350×115	DS 30K0.1L	720,-	96	1									
0,1	30	318×308×75	IKT 30K0.1	850,-	100	1									
0,1	30	450×350×115	IKT 30K0.1L	1150,-	100	1									
0,2	6	300×240×110	IFB 6K-4	320,-	95	1									
0,2	6	300×240×86	IXS 6K-4	520,-	98	1									
0,2	12	318×308×75	IKT 12K0.2	830,-	100	1									
0,2	36	308×318×75	DS 36K0.2	550,-	96	1									
0,2	36	450×350×115	DS 36K0.2L	660,-	96	1									
0,2	36	318×308×75	IKT 36K0.2	850,-	100	1									
0,2	36	450×350×115	IKT 36K0.2L	1050,-	100	1									
0,2	60	450×350×115	DS 60K0.2	740,-	96	1									
0,2	60	450×350×115	IKT 60K0.2L	1120,-	100	1									
0,2 0,5	6 15	318×308×88	DE 15K0.2D	335,-	90	1									
0,2 0,5	6 15	300×300×110	EOC 10K-4	370,-	92	1									
0,5	6	318×308×75	DE 6K0.5A	215,-	90	1									
0,5	6	300×300×110	EOC 6K-4A	350,-	92	1									
0,5	15	300×240×105	IFB 10K-4	320,-	95	1									
0,5	15	400×300×128	IFB 10K-4L	390,-	95	1									
0,5	15	300×240×86	IXS 10K-4	520,-	98	1									
0,5	15	400×300×89	IXS 10K-4L	590,-	98	1									
0,5	30	318×308×75	IKT 30K0.5	830,-	100	1									
0,5	65	450×350×115	DS 65K0.5	700,-	96	1									
0,5	65	450×350×115	IKT 65K0.5L	1050,-	100	1									
0,5	100	450×350×115	DS 100K0.5	740,-	96	1									
0,5	100	450×350×115	IKT 100K0.5L	1150,-	100	1									
0,5 1	15 35	500×400×120	EOC 30K-4	350,-	92	1									
1	12	318×308×75	DE 12K1A	215,-	90	1									
1	12	300×300×110	EOC 10K-3A	320,-	92	1									
1	30	400×300×120	IFB 30K-3	390,-	95	1									
1	30	400×300×89	IXS 30K-3	590,-	98	1									
1	30	500×400×123	IXS 30K-3L	720,-	98	1									
1	60	450×350×115	IKT 60K1L	1050,-	100	1									
1	150	450×350×115	DS 150K1	740,-	96	1									
1	150	450×350×115	IKT 150K1L	1150,-	100	1									
1 2	3 6	318×308×75	DE 6K1D	185,-	90	1									
1 2	3 6	300×300×110	EOC 6K-3	300,-	92	1									
1 2	3 6	300×300×110	IOC 6K-3M	320,-	94	1									
1 2	3 6	300×240×110	IFB 6K1DM	335,-	95	1									
1 2	3 6	300×240×86	IXS 6K-3M	520,-	98	1									
1 2	3 6	300×240×100	IFT 6K-3M	1440,-	102	2									
1 2	30 60	318×308×88	DE 60K1D	335,-	90	1									
1 2	30 60	522×406×98	DE 60K1DL	435,-	90	1									
1 2	30 60	300×300×110	EOC 60K-3	310,-	92	1									
1 2	30 60	500×400×120	EOC 60K-3L	380,-	92	1									
2	6	300×240×110	SFE 6K-3NM	390,-	97	1									
2	24	318×308×75	DE 24K2A	215,-	90	1									
2	24	300×300×110	EOC 20K-3A	370,-	92	1									
2	60	400×300×120	IFB 60K-3	390,-	95	1									
2	60	500×400×130	IFB 60K-3L	490,-	95	1									
2	60	400×300×89	IXS 60K-3	590,-	98	1									
2	60	500×400×123	IXS 60K-3L	720,-	98	1									
2	120	450×350×115	IKT 120K2L	1050,-	100	1									
2	150	650×500×142	IKT 150K2XL	1200,-	100	1									
2 5	6 15	318×308×75	DE 15K2D	185,-	90	1									
2 5	6 12	300×300×110	EOC 10K-3	290,-	92	1									
2 5	6 15	300×240×110	IOC 10K-3M	295,-	94	1									
2 5	6 15	400×300×110	IOC 10K-3LM	360,-	94	1									
2 5	6 15	300×240×110	IFB 15K2DM	335,-	95	1									
2 5	6 15	400×300×128	IFB 15K2DLM	400,-	95	1									
2 5	6 15	300×240×86	IXS 10K-3M	520,-	98	1									

Quick-Finder Platform scales

Read-out [d] g	Weighing range [Max] kg	Weighing plate WxD mm	Model KERN	Price excl. of VAT ex works €	Page	<div>  DAYS  M  CAL INT  CAL EXT  MEMORY  RS 232  PCS  IP  BATT  ACCU </div>									
						For an explanation on the pictos, see the front flap									
2 5	6 15	400×300×89	IXS 10K-3LM	590,-	98	1	○		●		○	●	●		○
2 5	6 15	300×240×100	IFT 10K-3M	1390,-	102	2		●	●	●	●	●	●		○
2 5	6 15	400×300×128	IFT 10K-3LM	1490,-	102	2		●	●	●	●	●	●		○
2 5	60 150	318×308×88	DE 150K2D	340,-	90	1		●		●	●	●	●		○
2 5	60 150	522×406×98	DE 150K2DL	435,-	90	1		●	●	●	●	●	●		○
2 5	60 150	300×300×110	EOC 100K-3	370,-	92	1		●		●	●	●	●		○
2 5	60 150	500×400×120	EOC 100K-3L	450,-	92	1		●		●	●	●	●		○
5	15	315×305×55	EOA 10K-3	110,-	86	1		●					●		
5	15	305×315×55	EOE 10K-3	135,-	87	1		●					●		
5	15	315×305×55	EOB 15K5	152,-	88	1		●					●		
5	15	300×240×110	SFE 10K-3NM	380,-	97	1	○	●				●		●	
5	15	400×300×130	SFE 10K-3LNM	440,-	97	1	○	●				●		●	
5	60	318×308×75	DE 60K5A	215,-	90	1		●		●	●	●	●		○
5	60	300×300×110	EOC 60K-3A	350,-	92	1		●		●	●	●	●		○
5	150	500×400×70	IFB 100K-3	490,-	95	1		●		●	●	●	●		○
5	150	650×500×142	IFB 100K-3L	690,-	95	1		●		●	●	●	●		○
5	150	500×400×123	IXS 100K-3	720,-	98	1		●		○	●	●	●		○
5	150	650×500×133,5	IXS 100K-3L	790,-	98	1		●		○	●	●	●		○
5	300	650×500×142	IKT 300K5XL	1200,-	100	1		●	●	●	●	●	●		○
5 10	15 35	318×308×75	DE 35K5D	185,-	90	1		●		●	●	●	●		○
5 10	15 35	522×403×83	DE 35K5DL	315,-	90	1		●		●	●	●	●		○
5 10	15 35	300×300×110	EOC 30K-3	310,-	92	1		●		●	●	●	●		○
5 10	15 35	500×400×120	EOC 30K-3L	370,-	92	1		●		●	●	●	●		○
5 10	15 30	400×300×110	IOC 30K-3M	360,-	94	1	○	●		●	●	●	●		○
5 10	15 30	400×300×120	IFB 30K5DM	400,-	95	1	○	●		●	●	●	●		○
5 10	15 30	400×300×89	IXS 30K-2M	590,-	98	1	○	●		○	●	●	●		○
5 10	15 30	500×400×123	IXS 30K-2LM	720,-	98	1	○	●		○	●	●	●		○
5 10	15 30	400×300×128	IFT 30K-3M	1490,-	102	2		●	●	●	●	●	●		○
5 10	150 300	522×406×98	DE 300K5DL	435,-	90	1		●		●	●	●	●		○
5 10	150 300	500×400×120	EOC 300K-3	390,-	92	1		●		●	●	●	●		○
10	30	300×240×110	SFE 30K-2NM	380,-	97	1	○	●				●		●	
10	35	315×305×55	EOA 30K-2	110,-	86	1		●					●		
10	35	305×315×55	EOE 30K-2	135,-	87	1		●					●		
10	35	315×305×55	EOB 35K10	152,-	88	1		●					●		
10	35	315×305×55	EOB 35K-2F	210,-	89	1		●					●		
10	120	318×308×75	DE 120K10A	215,-	90	1		●		●	●	●	●		○
10	120	500×400×120	EOC 100K-2A	390,-	92	1		●		●	●	●	●		○
10	300	650×500×142	IFB 300K-2	690,-	95	1		●		●	●	●	●		○
10	300	650×500×133,5	IXS 300K-2	790,-	98	1		●		○	●	●	●		○
10 20	30 60	318×308×75	DE 60K10D	185,-	90	1		●		●	●	●	●		○
10 20	30 60	522×403×83	DE 60K10DL	315,-	90	1		●		●	●	●	●		○
10 20	30 60	300×300×110	EOC 60K-2	350,-	92	1		●		●	●	●	●		○
10 20	30 60	500×400×120	EOC 60K-2L	430,-	92	1		●		●	●	●	●		○
10 20	30 60	400×300×110	IOC 60K-2M	370,-	94	1	○	●		●	●	●	●		○
10 20	30 60	500×400×120	IOC 60K-2LM	465,-	94	1	○	●		●	●	●	●		○
10 20	30 60	400×300×55	IFB 60K10DM	410,-	95	1	○	●		●	●	●	●		○
10 20	30 60	500×400×130	IFB 60K10DLM	505,-	95	1	○	●		●	●	●	●		○
10 20	30 60	400×300×89	IXS 60K-2M	590,-	98	1	○	●		○	●	●	●		○
10 20	30 60	500×400×123	IXS 60K-2LM	720,-	98	1	○	●		○	●	●	●		○
10 20	30 60	400×300×128	IFT 60K-2M	1490,-	102	2		●	●	●	●	●	●		○
10 20	30 60	500×400×137	IFT 60K-2LM	1590,-	102	2		●	●	●	●	●	●		○
20	60	315×305×55	EOA 50K-2	110,-	86	1		●					●		
20	60	305×315×55	EOE 60K-2	135,-	87	1		●					●		
20	60	550×550×57	EOE 60K-2L	270,-	87	1		●					●		
20	60	315×305×55	EOB 60K20	152,-	88	1		●					●		
20	60	550×550×75	EOB 60K20L	330,-	88	1		●					●		
20	60	315×305×55	EOB 60K-2F	215,-	89	1		●					●		
20	60	550×550×65	EOB 60K-2LF	430,-	89	1		●					●		
20	60	400×300×130	SFE 60K-2NM	430,-	97	1	○	●				●		●	
20	60	500×400×85	SFE 60K-2LNM	540,-	97	1	○	●				●		●	
20	600	800×600×190	IFB 600K-2	750,-	95	2		●		●	●	●	●		○
20 50	60 150	318×308×75	DE 150K20D	195,-	90	1		●		●	●	●	●		○
20 50	60 150	522×403×83	DE 150K20DL	315,-	90	1		●		●	●	●	●		○
20 50	60 150	650×500×95	DE 150K20DXL	450,-	90	1		●		●	●	●	●		○
20 50	60 150	300×300×110	EOC 100K-2	350,-	92	1		●		●	●	●	●		○
20 50	60 150	500×400×120	EOC 100K-2L	390,-	92	1		●		●	●	●	●		○
20 50	60 150	600×500×150	EOC 100K-2XL	520,-	92	1		●		●	●	●	●		○
20 50	60 150	950×500×60	EOC 100K-2XXL	530,-	92	1		●		●	●	●	●		○
20 50	60 150	500×400×120	IOC 100K-2M	465,-	94	1	○	●		●	●	●	●		○
20 50	60 150	650×500×150	IOC 100K-2LM	625,-	94	1	○	●		●	●	●	●		○
20 50	60 150	500×400×135	IFB 150K20DM	505,-	95	1	○	●		●	●	●	●		○
20 50	60 150	650×500×142	IFB 150K20DLM	665,-	95	1	○	●		●	●	●	●		○

Quick-Finder Platform scales

Read-out [d] g	Weighing range [Max] kg	Weighing plate WxD mm	Model KERN	Price excl. of VAT ex works €	Page	<div> <div>DAYS</div> <div>M</div> <div>CAL INT</div> <div>CAL EXT</div> <div>MEMORY</div> <div>RS 232</div> <div>PCS</div> <div>IP</div> <div>BATT</div> <div>ACCU</div> </div>									
						For an explanation on the pictos, see the front flap									
20 50	60 150	500×400×123	IXS 100K-2M	720,-	98	1	○		●		○	●			○
20 50	60 150	650×500×133,5	IXS 100K-2LM	790,-	98	1	○		●		○	●			○
20 50	60 150	500×400×137	IFT 100K-2M	1490,-	102	2			●	●	●	●			○
20 50	60 150	650×500×142	IFT 100K-2LM	1750,-	102	2			●	●	●	●			○
50	150	315×305×55	EOA 100K-2	110,-	86	1			●				●		
50	150	305×315×55	EOE 100K-2	135,-	87	1			●				●		
50	150	550×550×57	EOE 150K50L	270,-	87	1			●				●		
50	150	950×500×60	EOE 150K50XL	310,-	87	1			●				●		
50	150	315×305×55	EOB 150K50	152,-	88	1			●				●		
50	150	550×550×75	EOB 150K50L	330,-	88	1			●				●		
50	150	945×505×65	EOB 150K50XL	400,-	88	1			●				●		
50	150	900×550×60	EOS 150K50XL	440,-	88	1			●				●		
50	150	315×305×65	EOB 150K-2F	215,-	89	1			●				●		
50	150	550×550×65	EOB 150K-2LF	450,-	89	1			●				●		
50	150	900×550×60	EOS 150K50LXF	510,-	89	1			●				●		
50	150	400×300×130	SFE 100K-2M	450,-	97	1	○		●			●			●
50	150	500×400×140	SFE 100K-2LM	550,-	97	1	○		●			●			●
50	150	650×500×140	SFE 100K-2XLNM	660,-	97	1	○		●			●			●
50 100	150 300	522×403×83	DE 300K50D	315,-	90	1			●		●	●	●		○
50 100	150 300	650×500×95	DE 300K50DL	450,-	90	1			●		●	●	●		○
50 100	150 300	500×400×120	EOC 300K-2	420,-	92	1			●		●	●	●		○
50 100	150 300	600×500×150	EOC 300K-2L	520,-	92	1			●		●	●	●		○
50 100	150 300	650×500×150	IOC 300K-2M	650,-	94	1	○		●		●	●	●		○
50 100	150 300	650×500×142	IFB 300K50DM	665,-	95	1	○		●		●	●	●		○
50 100	150 300	650×500×133,5	IXS 300K-2M	790,-	98	1	○		●		○	●			○
50 100	150 300	650×500×142	IFT 300K-2LM	1790,-	102	2			●	●	●	●			○
100	300	305×315×60	EOE 300K100	135,-	87	1			●				●		
100	300	550×550×57	EOE 300K100L	265,-	87	1			●				●		
100	300	950×500×55	EOE 300K100XL	310,-	87	1			●				●		
100	300	315×305×55	EOB 300K100A	152,-	88	1			●				●		
100	300	550×550×75	EOB 300K100L	330,-	88	1			●				●		
100	300	945×505×65	EOB 300K100XL	400,-	88	1			●				●		
100	300	900×550×60	EOS 300K100XL	440,-	88	1			●				●		
100	300	550×550×65	EOB 300K-1LF	470,-	89	1			●				●		
100	300	900×550×60	EOS 300K100LXF	510,-	89	1			●				●		
100	300	650×500×140	SFE 300K-1LNM	660,-	97	1	○		●			●			●
100 200	300 600	800×600×200	IOC 600K-1M	850,-	94	1	○		●		●	●	●		○
100 200	300 600	800×600×190	IFB 600K-1M	890,-	95	2	○		●		●	●	●		○

News 2018

● = standard ○ = option



Roller conveyor KERN YRO

Did you know?

For determining the weight of goods e.g. on conveyor in production or dispatch lines, we offer a selection of different roller conveyor attachments for our platform scales. In this way you can convert your platform scale into a robust measuring system for rapid and flexible weight determination. For all details on this, please see page 161.



Compact parcel scales for fast and easy weighing in the office, production, dispatch etc.

Features

- **Simple and convenient 2-key operation**
- **High mobility:** Battery operation, compact, lightweight construction, recessed grips on the underside and low weight make this balance ideal for use in several locations
- **Adjusting program CAL** for quick setting of the balance accuracy, external test weights at an additional price
- **Protective working cover** included with delivery

Technical data

- Large LCD display, digit height 25 mm
- Weighing plate dimensions, steel, painted, W×D×H 315×305×55 mm
- Dimensions of display device W×D×H 225×110×45 mm
- Cable length of display device approx. 1,4 m
- **Ready for use:** Batteries included, 9 V block, operating time up to 60 h
- Permissible ambient temperature 10 °C/35 °C

Accessories

- **Protective working cover** over the display device, scope of delivery: 5 items, KERN DE-A12S05, **€ 40,-**
- **External universal mains adapter**, with universal input and optional input socket adapters for EU, GB, USA, YKA-06, **€ 36,-**

STANDARD

CAL EXT

BATT

MULTI

DMS

1 DAY

OPTION

DAKKS

+3 DAYS

Model	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Options	
						DAkkS Calibr. Certificate	
KERN						DKD KERN	€
EOA 10K-3	15	5	5	± 25	110,-	963-128	88,-
EOA 30K-2	35	10	10	± 50	110,-	963-128	88,-
EOA 50K-2	60	20	20	± 100	110,-	963-129	105,-
EOA 100K-2	150	50	50	± 250	110,-	963-129	105,-

ONLY WHILE STOCKS LAST !



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

Features

- **High mobility:** Battery operation, compact, lightweight construction, recessed grips on the underside and low weight make this balance ideal for 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 plate dimensions, steel, painted W×D×H
 - A 305×315×55 mm
 - B 550×550×57 mm
 - C 950×500×55 mm
- Dimensions of display device W×D×H 235×114×51 mm
- Optional battery operation, 4×1.5 V AA not included, 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-A02S05, **€ 40,-**
- **Stand** to elevate display device, for models with weighing plate size **A**, height of stand approx. 480 mm, KERN EOB-A01N-2017, **€ 50,-**
- **Stand** to elevate display device, height of stand approx. 950 mm, can be retrofitted, KERN MWS-A01-2017, **€ 70,-**
- **External universal mains adapter**, with universal input and optional input socket adapters for EU, GB, USA, YKA-16, **€ 40,-**

STANDARD

CAL EXT

UNIT

MOVE

BATT

MULTI

DMS

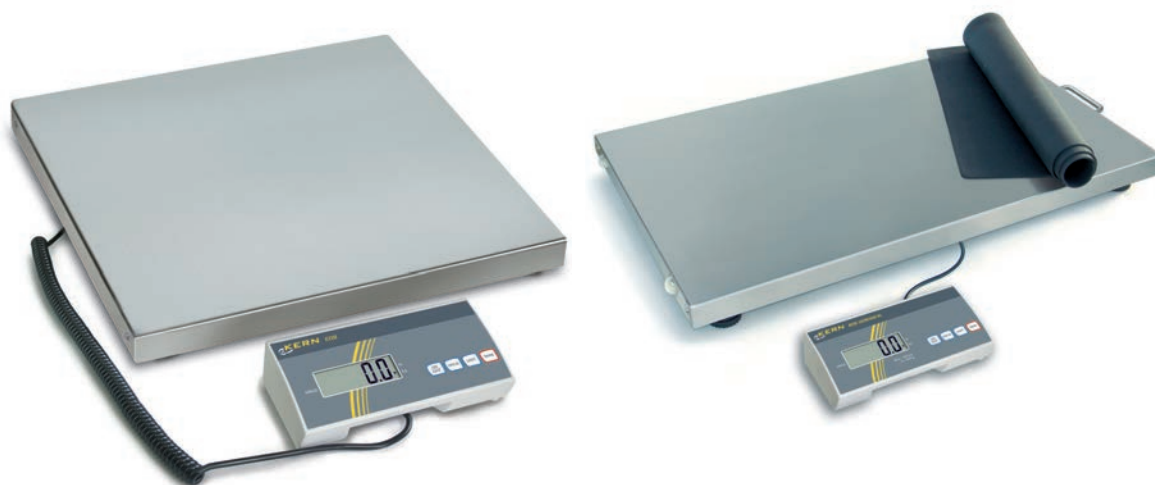
1 DAY

OPTION

DAKKS

+3 DAYS

Model	Weighing range	Readout	Reproducibility	Weighing plate	Net weight	Cable length	Price excl. of VAT ex works €	Options	
								DAKKS Calibr. Certificate	
KERN	[Max] kg	[d] g	g		approx. kg	approx. m		DKD KERN	€
EOE 10K-3	15	5	5	A	3,8	1,8	135,-	963-128	88,-
EOE 30K-2	35	10	10	A	3,8	1,8	135,-	963-128	88,-
EOE 60K-2	60	20	20	A	3,8	1,8	135,-	963-129	105,-
EOE 60K-2L	60	20	20	B	13	2,7	270,-	963-129	105,-
EOE 100K-2	150	50	50	A	3,8	1,8	135,-	963-129	105,-
EOE 150K50L	150	50	50	B	13	2,7	270,-	963-129	105,-
EOE 150K50XL	150	50	50	C	18	2,7	310,-	963-129	105,-
EOE 300K100	300	100	100	A	3,8	1,8	135,-	963-129	105,-
EOE 300K100L	300	100	100	B	13	2,7	265,-	963-129	105,-
EOE 300K100XL	300	100	100	C	18	2,7	310,-	963-129	105,-



The bestsellers in parcel- and veterinary scales, also with XL-platform, and big 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
- KERN EOS: The scale can be easily transported using **rollers** and a **handle** and does not require much storage space
- **Protective working cover** included with delivery
- KERN EOS: **Non-slip rubber mat** included with delivery

Technical data

- Large LCD display, digit height 25 mm
- Weighing plate dimensions W×D×H
 - A** 315×305×55 mm
 - B** 550×550×75 mm, see larger picture
 - C** 550×550×75 mm
 - D** 900×550×60 mm
- Dimensions of display device W×D×H 215×110×50 mm
- Cable length of display device approx. 2 m
- Optional battery operation, 6×1.5 V AA not included, operating time up to 60 h
- Permissible ambient temperature 10 °C/35 °C

Accessories

- **Protective working cover** over the display device, scope of delivery: 5 items, KERN EOB-A02S05, **€ 40,-**
- **1 Stand** to elevate display device, height of stand approx. 950 mm, can be retrofitted, KERN MWS-A01, **€ 180,-**
- **2 KERN EOB: Stand** to elevate display device, can be retrofitted, for models with weighing plate size **A**, height of stand approx. 450 mm, KERN EOB-A01N, **€ 80,-**
- KERN EOB: **Non-slip rubber mat**, W×D×H 945×505×5 mm, KERN EOE-A01, **€ 45,-**
- KERN EOS: **Non-slip rubber mat**, W×D×H 900×550×5 mm, KERN EOS-A01, **€ 35,-**

STANDARD

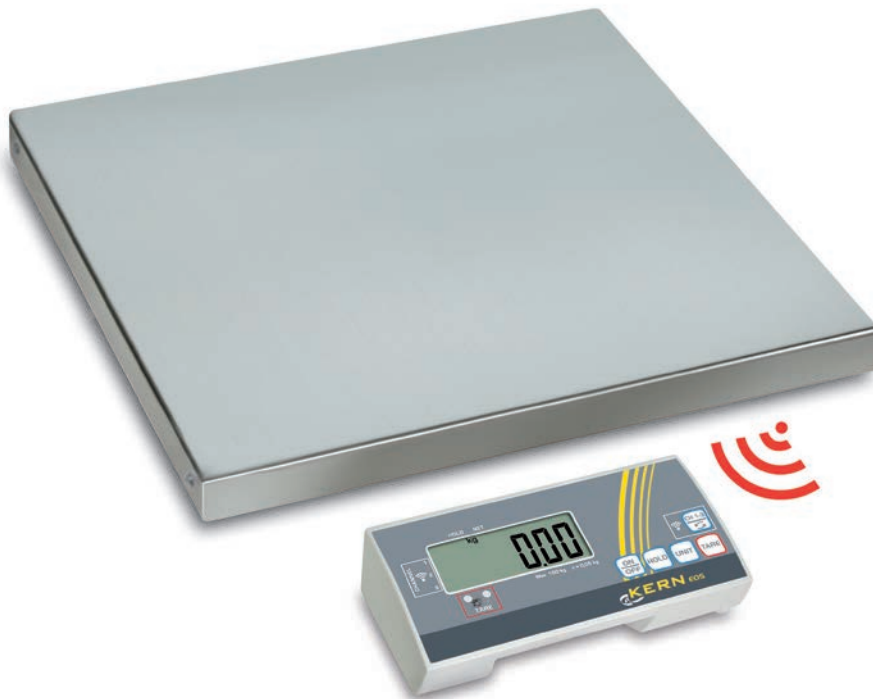


OPTION



Model	Weighing range	Readout	Reproducibility	Linearity	Net weight	Weighing plate	Price excl. of VAT ex works €	Options	
								DAkkS Calibr. Certificate	
KERN	[Max] kg	[d] g	g	g	approx. kg			DKD KERN	€
EOB 15K5	15	5	5	± 10	4,0	A	152,-	963-128	88,-
EOB 35K10	35	10	10	± 20	4,0	A	152,-	963-128	88,-
EOB 60K20	60	20	20	± 40	4,8	A	152,-	963-129	105,-
EOB 60K20L	60	20	20	± 40	14	B	330,- ↓	963-129	105,-
EOB 150K50	150	50	50	± 100	4,8	A	152,-	963-129	105,-
EOB 150K50L	150	50	50	± 100	14	B	330,- ↓	963-129	105,-
EOB 150K50XL	150	50	50	± 100	19	C	400,-	963-129	105,-
EOB 300K100A	300	100	100	± 200	4,6	A	152,-	963-129	105,-
EOB 300K100L	300	100	100	± 200	14	B	330,- ↓	963-129	105,-
EOB 300K100XL	300	100	100	± 200	19	C	400,-	963-129	105,-
EOS 150K50XL	150	50	50	± 100	19	D	440,-	963-129	105,-
EOS 300K100XL	300	100	100	± 200	19	D	440,-	963-129	105,-

↓ Price reduction



Radio platform scales with touchless tare function

Features

- **Display device with integrated radio module** for wireless communication with the weighing platform: ideal for weighing contaminated items, weighing in loud environments or with physical separation. Range approx. 10 m
- **1 Touchless tare function:** by the wave of your hand. No need to operate the scale with dirty gloves anymore
- **Network operation:** 3 frequencies for parallel use of several weighing platforms with a single display device
- **High mobility** thanks to battery operation for display device and platform
- **Simple and convenient 5-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

Technical data

- Large LCD display, digit height 25 mm
- Weighing plate dimensions, stainless steel W×D×H
 - A** 315×305×55 mm
 - B** 550×550×65 mm
 - C** 900×550×60 mm
- Dimensions of display device W×D×H 215×110×45 mm
- Optional battery operation, 6×1.5 V AA not included, operating time up to 60 h
- Permissible ambient temperature 10 °C/35 °C

Accessories

- **Protective working cover** over the display device, scope of delivery: 5 items, KERN EOB-A02S05, **€ 40,-**
- **Stand** to elevate display device, for models with weighing plate size **A**, height of stand approx. 450 mm, KERN EOB-A01N, **€ 80,-**
- **Stand** to elevate display device, height of stand approx. 950 mm, KERN MWS-A01, **€ 180,-**
- **2 KERN EOS-F: Non-slip rubber mat**, W×D×H 900×550×5 mm, KERN EOS-A01, **€ 35,-**

STANDARD



OPTION



Model	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Options	
							DAKKS Calibr. Certificate	
KERN							DKD KERN	€
EOB 35K-2F	35	10	10	± 20	A	210,-	963-128	88,-
EOB 60K-2F	60	20	20	± 40	A	215,-	963-129	105,-
EOB 60K-2LF	60	20	20	± 40	B	430,-	963-129	105,-
EOB 150K-2F	150	50	50	± 100	A	215,-	963-129	105,-
EOB 150K-2LF	150	50	50	± 100	B	450,-	963-129	105,-
EOB 300K-1LF	300	100	100	± 200	B	470,-	963-129	105,-
EOS 150K50XLF	150	50	50	± 100	C	510,-	963-129	105,-
EOS 300K100XLF	300	100	100	± 200	C	510,-	963-129	105,-

ONLY WHILE STOCKS LAST !



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



Piece counting



Animal weighing



Recipe-weighing



Features

- **High mobility:** 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.)
- **Display device** flexible positioning, e.g. free-standing or mounted to the wall
- **1 Display device:** plastic, protection against dust and water splashes IP65
- **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 plate dimensions, stainless steel W×D×H
 - A** 318×308×75 mm
 - B** 318×308×88 mm
 - C** 522×406×98 mm, see larger picture
 - D** 522×403×83 mm
 - E** 650×500×95 mm
- Dimensions of display device W×D×H 225×110×45 mm
- Optional battery operation, 9 V block not included, 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, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN NDE-A02, **€ 50,-**
- **Mount to fasten the display device** to the platform, KERN DE-A11N, **€ 35,-**
- **Wall mount** for display device
- **2 Stand** to elevate display device, height of stand approx. 480 mm, KERN DE-A10, **€ 100,-**
- **Individual header data:** the free software SHM-01 can be used to print header lines on the printout when using printers YKN-01 and YKB-01N
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model KERN	Weighing range [Max] kg	Readout [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	
										DKD KERN	€
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d]											
DE 6K1D	3 6	1 2	1 2	± 3 6	40	1,4	4,8	A	185,-	963-128	88,-
DE 15K2D	6 15	2 5	2 5	± 6 15	100	1,4	4,8	A	185,-	963-128	88,-
DE 35K5D	15 35	5 10	5 10	± 15 30	100	1,4	4,8	A	185,-	963-128	88,-
DE 35K5DL	15 35	5 10	5 10	± 15 30	100	1,4	16	C	315,-	963-128	88,-
DE 60K10D	30 60	10 20	10 20	± 30 60	200	1,4	4,8	A	185,-	963-129	105,-
DE 60K10DL	30 60	10 20	10 20	± 30 60	200	1,4	16	C	315,-	963-129	105,-
DE 150K20D	60 150	20 50	20 50	± 60 150	400	1,5	5,0	A	195,-	963-129	105,-
DE 150K20DL	60 150	20 50	20 50	± 60 150	400	1,5	16	C	315,-	963-129	105,-
DE 150K20DXL	60 150	20 50	20 50	± 60 150	400	1,4	28	E	450,-	963-129	105,-
DE 300K50D	150 300	50 100	50 100	± 150 300	2000	1,25	16	C	315,-	963-129	105,-
DE 300K50DL	150 300	50 100	50 100	± 150 300	2000	1,05	28	E	450,-	963-129	105,-
Dual-range balance with high resolution readout											
DE 6K0.5A	6	0,5	0,5	± 1,5	10	1,4	4,8	A	215,-	963-128	88,-
DE 12K1A	12	1	1	± 3	20	1,4	4,8	A	215,-	963-128	88,-
DE 24K2A	24	2	2	± 6	40	1,4	4,8	A	215,-	963-128	88,-
DE 60K5A	60	5	5	± 15	100	1,4	4,8	A	215,-	963-129	105,-
DE 120K10A	120	10	10	± 30	200	1,4	5,0	A	215,-	963-129	105,-
Dual-range balance with high resolution readout											
DE 15K0.2D	6 15	0,2 0,5	0,2 0,5	± 0,8 2	4	1	4,0	B	335,-	963-128	88,-
DE 60K1D	30 60	1 2	1 2	± 4 8	20	1,47	7	B	335,-	963-129	105,-
DE 60K1DL	30 60	1 2	1 2	± 4 8	20	1,4	15	D	435,-	963-129	105,-
DE 150K2D	60 150	2 5	2 5	± 8 20	40	1,6	7	B	340,-	963-129	105,-
DE 150K2DL	60 150	2 5	2 5	± 8 20	40	1,4	15	D	435,-	963-129	105,-
DE 300K5DL	150 300	5 10	5 10	± 20 40	100	1,4	15	D	435,-	963-129	105,-



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 ex works for an additional cost, delivery time + 2 working days, KERN KIB-M01, see Accessories on the right, please indicate when placing your order



Features

- **High mobility:** thanks to rechargeable battery operation (optional), compact, light-weight construction, it is suitable for the use in several locations (laboratory, production, quality control, commissioning etc.)
- **1 Platform:** weighing plate stainless steel, painted steel base, silicone-coated aluminium load cell, 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 (check-weighing):** 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

- **Searching and remote control of the balance** using external control devices or computers with the KERN Communication Protocol (KCP). KCP is a standardised interface command structure for KERN balances and other instruments which allows you to recall and manage all relevant parameters and device functions. You can therefore simply connect KERN devices with KCP to computers, industrial control systems and other digital systems. In a large number of cases the KCP is compatible with the MT-SICS protocol

Technical data

- Large backlit LCD display, digit height 24 mm
- Weighing plate dimensions W×D×H
 - A 300×300×110 mm
 - B 300×300×110 mm
 - C 500×400×120 mm, see larger picture
 - D 600×500×150 mm
 - E 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, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 43 h without backlight, charging time approx. 3h, KERN KFB-A01, **€ 35,-**
- **2 Stand** to elevate display device, height of stand approx. 330 mm, KERN EOC-A05, **€ 60,-**
- **3 Mount to fasten the display device** to the platform, KERN EOC-A03, **€ 30,-**
- **Benchtop stand incl. wall mount** for display device, KERN EOC-A04, **€ 30,-**
- **Conversion 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, **€ 95,-**

STANDARD



OPTION



Model	Weighing range [Max] kg	Readout [d] 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								DKD	
								KERN	€
EOC 6K-3	3 6	1 2	2,5	3	6	A	300,-	963-128	88,-
EOC 10K-3	6 12	2 5	5	3	7	A	290,-	963-128	88,-
EOC 30K-3	15 35	5 10	10	3	6	B	310,-	963-128	88,-
EOC 30K-3L	15 35	5 10	10	3	9	C	370,-	963-128	88,-
EOC 60K-2	30 60	10 20	20	3	6	B	350,-	963-129	105,-
EOC 60K-2L	30 60	10 20	20	3	9	C	430,-	963-129	105,-
EOC 100K-2	60 150	20 50	50	3	6	B	350,-	963-129	105,-
EOC 100K-2L	60 150	20 50	50	3	9	C	390,-	963-129	105,-
EOC 100K-2XL	60 150	20 50	50	3	19	D	520,-	963-129	105,-
EOC 100K-2XXL	60 150	20 50	100	2,7	16	E	530,-	963-129	105,-
EOC 300K-2	150 300	50 100	100	3	9	C	420,-	963-129	105,-
EOC 300K-2L	150 300	50 100	100	3	19	D	520,-	963-129	105,-
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d]									
EOC 6K-4A	6	0,5	2,5	3	6	A	350,-	963-128	88,-
EOC 10K-3A	12	1	5	3	7	A	320,-	963-128	88,-
EOC 20K-3A	24	2	10	3	6	A	370,-	963-128	88,-
EOC 60K-3A	60	5	20	3	6	B	350,-	963-129	105,-
EOC 100K-2A	120	10	50	3	9	C	390,-	963-129	105,-
EOC 10K-4	6 15	0,2 0,5	5	3	7	A	370,-	963-128	88,-
EOC 30K-4	15 35	0,5 1	10	3	9	C	350,-	963-128	88,-
EOC 60K-3	30 60	1 2	20	3	6	B	310,-	963-129	105,-
EOC 60K-3L	30 60	1 2	20	3	9	C	380,-	963-129	105,-
EOC 100K-3	60 150	2 5	50	3	7	B	370,-	963-129	105,-
EOC 100K-3L	60 150	2 5	50	3	9	C	450,-	963-129	105,-
EOC 300K-3	150 300	5 10	100	3	9	C	390,-	963-129	105,-

Price reduction

NEW



- Permissible ambient temperature -10 °C/40 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN EOC-A01S05, € 40,-
- **1 Stand** to elevate display device, height of stand approx. 330 mm, KERN EOC-A05, € 60,-
- **Mount to fasten the display device** to the platform, KERN EOC-A03, € 30,-
- **2 Benchtop stand incl. wall mount** for display device, KERN EOC-A04, € 30,-
- **Rechargeable battery pack internal**, operating time up to 26 h with backlight, charging time approx. 3 h, KERN KFB-A01, € 35,-
- **USB data interface**, for transferring weighing to the PC, printer, USB sticks etc., KERN KIB-A03, € 120,-
- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase, KERN KIB-A04, € 110,-
- **WLAN interface** for wireless connection of the balance to networks and WLAN capable devices, such as tablets, laptops or smartphones, must be ordered at purchase, please ask for delivery time, KERN KIB-A10, € 120,-
- **Digital I/O interface (8in/8out)**, KIB-A09, € 130,-
- **Ethernet data interface**, to connect an IP-based Ethernet network, must be ordered at purchase, KERN KIB-A02, € 150,-
- **Signal lamp, including interface**, for visual support of weighing with tolerance range, KERN KIB-A06, € 320,-
- **Alibi memory**, including USB interface for exporting weighing results to external data storage media, such as, for example, USB sticks, hard drives, etc., KERN KIB-A01, € 160,-
- **Conversion 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, € 95,-

Allround platform scale with a wide range of communication options and EC type approval [M]*

Features

- **Industry 4.0:** A wide range of (optional) data interfaces allows that it is easy to transfer weighing data to tablets, laptops, PCs, networks, Smartphones, printers, etc.
- **High mobility:** thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (laboratory, production, quality control, commissioning etc.)
- **Platform:** weighing plate stainless steel, painted steel base, silicone-coated aluminium load cell, 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 (checkweighing):** a visual and audible signal helps with portioning, dispensing or grading. Factory Option ex works for an additional cost, delivery time + 2 working days, KERN KIB-M01, see Accessories on the right, please indicate when placing your order

- **Searching and remote control of the balance** using external control devices or computers with the KERN Communication Protocol (KCP). KCP is a standardised interface command structure for KERN balances and other instruments which allows you to recall and manage all relevant parameters and device functions. You can therefore simply connect KERN devices with KCP to computers, industrial control systems and other digital systems. In a large number of cases the KCP is compatible with the MT-SICS protocol. Only possible through data interface RS-232, other interfaces on request

Technical data

- Large backlit LCD display, digit height 24 mm
- Weighing plate dimensions W×D×H
A 300×300×110 mm, **B** 400×300×110 mm,
C 500×400×120 mm, **D** 650×500×150 mm,
E 800×600×200 mm
- Dimensions of display device W×D×H
 260×115×70 mm

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimal load [Min] g	Weighing plate	Price excl. of VAT ex works €	Options			
							Verification *		DAkkS Calibr. Certificate	
KERN							KERN	€	KERN	€
IOC 6K-3M	3 6	1 2	1 2	20 40	A	320,-	965-228	70,-	963-128	88,-
IOC 10K-3M	6 15	2 5	2 5	40 100	A	295,-	965-228	70,-	963-128	88,-
IOC 10K-3LM	6 15	2 5	2 5	40 100	B	360,-	965-228	70,-	963-128	88,-
IOC 30K-3M	15 30	5 10	5 10	100 200	B	360,-	965-228	70,-	963-128	88,-
IOC 60K-2M	30 60	10 20	10 20	200 400	B	370,-	965-229	93,-	963-129	105,-
IOC 60K-2LM	30 60	10 20	10 20	200 400	C	465,-	965-229	93,-	963-129	105,-
IOC 100K-2M	60 150	20 50	20 50	400 1000	C	465,-	965-229	93,-	963-129	105,-
IOC 100K-2LM	60 150	20 50	20 50	400 1000	D	625,-	965-229	93,-	963-129	105,-
IOC 300K-2M	150 300	50 100	50 100	1000 2000	D	650,-	965-229	93,-	963-129	105,-
IOC 600K-1M	300 600	100 200	100 200	2000 4000	E	850,-	965-230	132,-	963-130	165,-

* on request



Platform scale in heavy version with EC type approval [M], now also up to [Max] 600 kg

Features

- **Tough industry standard** suitable for use in harsh industrial applications
- **1 Platform:** weighing plate stainless steel, painted steel base, silicone-coated aluminium load cell, 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

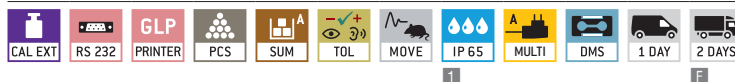
- Large backlit LCD display, digit height 52 mm
- Weighing plate dimensions, stainless steel W×D×H
 - A 230×230×110 mm, B 300×240×110 mm
 - C 400×300×128 mm, D 400×300×128 mm
 - E 500×400×130 mm, F 800×600×190 mm
- Dimensions of display device W×D×H 250×160×58 mm
- Cable length of display device approx. 3 m

- Permissible ambient temperature -10 °C/40 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN KFB-A02S05, € 40,-
- **Stand** to elevate display device, for models with weighing plate size
 - A, C: height of stand approx. 330 mm, KERN IFB-A01, € 50,-
 - D-E: height of stand approx. 600 mm, KERN IFB-A02, € 60,-
 - A-F: height of stand approx. 800 mm, KERN BFS-A07, € 120,-
- **Rechargeable battery pack internal**, operating time up to 35 h, without backlight, charging time approx. 12 h, must be ordered at purchase, KERN KFB-A01, € 35,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Readout [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	€	DKD KERN	€
IFB 6K-4S	6	0,2	-	-	6	A	350,-	-	-	963-128	88,-
IFB 6K-4	6	0,2	-	-	6	B	320,-	-	-	963-128	88,-
IFB 10K-4	15	0,5	-	-	6	C	320,-	-	-	963-128	88,-
IFB 10K-4L	15	0,5	-	-	10	C	390,-	-	-	963-128	88,-
IFB 30K-3	30	1	-	-	10	C	390,-	-	-	963-128	88,-
IFB 60K-3	60	2	-	-	10	D	390,-	-	-	963-129	105,-
IFB 60K-3L	60	2	-	-	13	D	490,-	-	-	963-129	105,-
IFB 100K-3	150	5	-	-	14	E	490,-	-	-	963-129	105,-
IFB 100K-3L	150	5	-	-	22	E	690,-	-	-	963-129	105,-
IFB 300K-2	300	10	-	-	20	F	690,-	-	-	963-129	105,-
IFB 600K-2	600	20	-	-	46	E	750,-	-	-	963-130	165,-
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d]											
IFB 6K1DM	3 6	1 2	1 2	20 40	6	A	335,-	965-228	70,-	963-128	88,-
IFB 15K2DM	6 15	2 5	2 5	40 100	6	A	335,-	965-228	70,-	963-128	88,-
IFB 15K2DLM	6 15	2 5	2 5	40 100	10	B	400,-	965-228	70,-	963-128	88,-
IFB 30K5DM	15 30	5 10	5 10	100 200	11	B	400,-	965-228	70,-	963-128	88,-
IFB 60K10DM	30 60	10 20	10 20	200 400	11	B	410,-	965-229	93,-	963-129	105,-
IFB 60K10DLM	30 60	10 20	10 20	200 400	13	C	505,-	965-229	93,-	963-129	105,-
IFB 150K20DM	60 150	20 50	20 50	400 1000	14	C	505,-	965-229	93,-	963-129	105,-
IFB 150K20DLM	60 150	20 50	20 50	400 1000	20	D	665,-	965-229	93,-	963-129	105,-
IFB 300K50DM	150 300	50 100	50 100	1000 2000	22	D	665,-	965-229	93,-	963-129	105,-
IFB 600K-1M	300 600	100 200	100 200	2000 4000	46	E	890,-	965-230	132,-	963-130	165,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

Verification at the factory, we need to know the full address of the location of use.



Precision industrial scale with laboratory accuracy

Features

- **High-capacity precision balance**, ideal for high volume or heavy samples to be weighed with a high degree of accuracy
- **User guidance step by step** on display by Yes/No dialogue
- **Numerical subtraction of tare weight** for known container weight. Useful for checking fill-levels
- **Precise counting**: 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
- **Protective working cover** included with delivery

Technical data

- Large backlit LCD display, digit height 18 mm
- Weighing plate dimensions, stainless steel W×D×H
 - A** 228×228×95 mm
 - B** 308×318×75 mm, see larger picture
 - C** 450×350×115 mm
- Dimensions of display device W×D×H 225×115×60 mm
- Cable length of display device approx.
 - A**, **B** 2 m
 - C** 0,6 m
- Permissible ambient temperature 10 °C/40 °C



Accessories

- **Protective working cover** over the display device, scope of delivery: 5 items, KERN DE-A12S05, **€ 40,-**
- **1 Stand** to elevate display device, only for models with weighing plate sizes **B**, **C**, height of stand approx. 480 mm, KERN DE-A10, **€ 100,-**
- **Mount to fasten the display device** to the platform, for models with weighing plate sizes **B**, **C**, KERN DE-A11N, **€ 35,-**
- **Wall mount** for display device, KERN DS-A02, **€ 30,-**
- **2 Set for underfloor weighing**, consists of platform, bow, hook, only for models with weighing plate **B**, KERN DS-A01, **€ 200,-**
- **Rechargeable battery pack external**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- **Rechargeable battery pack internal**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KB-A01N, **€ 50,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model	Weighing range [Max] kg	Readout [d] g	Smallest part weight [Normal] g/piece	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options	
							DAkkS Calibr. Certificate	
KERN							DKD KERN	€
DS 3K0.01S	3	0,01	0,1	4,2	A	640,-	963-127	72,-
DS 5K0.05S	5	0,05	0,5	4,2	A	560,-	963-127	72,-
DS 8K0.05	8	0,05	0,5	8	B	550,-	963-128	88,-
DS 10K0.1S	10	0,1	1	4,2	A	530,-	963-128	88,-
DS 16K0.1	16	0,1	1	8	B	550,-	963-128	88,-
DS 20K0.1	20	0,1	1	8	B	580,-	963-128	88,-
DS 30K0.1	30	0,1	1	8	B	610,-	963-128	88,-
DS 30K0.1L	30	0,1	1	10	C	720,-	963-128	88,-
DS 36K0.2	36	0,2	2	8	B	550,-	963-128	88,-
DS 36K0.2L	36	0,2	2	10	C	660,-	963-128	88,-
DS 60K0.2	60	0,2	2	10	C	740,-	963-129	105,-
DS 65K0.5	65	0,5	5	10	C	700,-	963-129	105,-
DS 100K0.5	100	0,5	5	10	C	740,-	963-129	105,-
DS 150K1	150	1	10	10	C	740,-	963-129	105,-



Platform scale with dust and spray protection IP65 and EC type approval [M]

Features

- Platform scale protected to IP65 with stainless steel display device, for industrial applications, hygienic and easy to clean
- 1 Platform:** weighing plate stainless steel, painted steel base, silicone-coated aluminium load cell, protection against dust and water splashes IP65
- Display device:** stainless steel, protection against dust and water splashes IP65, flexible positioning, e.g. free-standing or mounted to the wall, for details see KERN KFE-TM
- Weighing with tolerance range (check-weighing):** 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

- PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels (only for non-verified models)

Technical data

- Large backlit LCD display, digit height 22 mm
- Weighing plate dimensions, stainless steel W×D×H
 - A** 300×240×110 mm, see larger picture
 - B** 400×300×130 mm
 - C** 500×400×140 mm
 - D** 650×500×140 mm
- Dimensions of display device W×D×H 195×118×83 mm
- Cable length of display device approx. 3 m

- Rechargeable battery pack internal, operating time up to 35 h without backlight, charging time approx. 12 h
- Permissible ambient temperature -10 °C/40 °C

Accessories

- 2 Stand** to elevate display device, for models with weighing plate size
 - A-D:** height of stand approx. 200 mm, KERN SFE-A01, **€ 55,-**
 - B-D:** height of stand approx. 400 mm, KERN SFE-A02, **€ 55,-**
 - C-D:** height of stand approx. 600 mm, KERN SFE-A03, **€ 65,-**
- Tare pan made of stainless steel**, ideal for weighing loose small parts, fruit, vegetables etc., W×D×H 370×240×20 mm, KERN RFS-A02, **€ 55,-**

STANDARD



OPTION



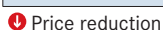
FACTORY



Model	Weighing range [Max] kg	Readout [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											
SFE 6K-3NM	6	2	2	40	6	A	390,-	965-228	70,-	963-128	88,-
SFE 10K-3NM	15	5	5	100	6	A	380,-	965-228	70,-	963-128	88,-
SFE 10K-3LNM	15	5	5	100	12	B	440,-	965-228	70,-	963-128	88,-
SFE 30K-2NM	30	10	10	200	6	A	380,-	965-228	70,-	963-128	88,-
SFE 60K-2NM	60	20	20	400	10	B	430,-	965-229	93,-	963-129	105,-
SFE 60K-2LNM	60	20	20	400	14	C	540,-	965-229	93,-	963-129	105,-
SFE 100K-2M	150	50	50	1000	10	B	450,-	965-229	93,-	963-129	105,-
SFE 100K-2LM	150	50	50	1000	14	C	550,-	965-229	93,-	963-129	105,-
SFE 100K-2XLNM	150	50	50	1000	22	D	660,-	965-229	93,-	963-129	105,-
SFE 300K-1LNM	300	100	100	2000	20	D	660,-	965-229	93,-	963-129	105,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

Verification at the factory, we need to know the full address of the location of use.



Price reduction



Platform scale with stainless steel display device with IP68 rating, XL-display und EC type approval [M] – now also as high resolution version with high-resolution display



Piece-counting function



Durable stainless steel weighing plate



Stainless steel display device with IP68 protection, hygienic and easy to clean
Benchtop stand incl. wall mount for display device as standard, for details see KERN KXS-TM



Features

- **Tough industry standard** suitable for use in harsh industrial applications
- **1 Platform:** weighing plate stainless steel, painted steel base, silicone-coated aluminium load cell, protection against dust and water splashes IP65, Substruction in wing design, extremely resistant to bending
- **Superior display size:** digit height 55 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- **2 Display device:** stainless steel, protection against dust and water splashes IP68, integrated power supply
- **ESD drain to protect against electrostatic discharge** e.g. for electrostatically-charged weighing objects or people who work with the scale
- Thanks to **interfaces** such as RS-232, RS-485 and Bluetooth (optional) the scale can easily be connected to existing networks and facilitates the data exchange between the scale and printer

Technical data

- Large backlit LCD display, digit height 55 mm
- Weighing plate dimensions, stainless steel W×D×H
 - A** 300×240×86 mm, see larger picture
 - B** 400×300×89 mm
 - C** 500×400×123 mm
 - D** 650×500×133,5 mm
- Dimensions of display device W×D×H 232×170×80 mm
- Cable length of display device approx. 2,5 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- **3 Stand** to elevate display device height of stand approx. 50 mm, KERN IXS-A01, **€ 55,-**
height of stand approx. 200 mm, KERN IXS-A02, **€ 70,-**
height of stand approx. 400 mm, KERN IXS-A03, **€ 75,-**

height of stand approx. 600 mm, KERN IXS-A04, **€ 85,-**

- **Rechargeable battery pack internal**, operating time up to 80 h without backlight, charging time approx. 12 h, KERN GAB-A04, **€ 40,-**
- **Data interface RS-232**, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KXS-A04, **€ 100,-**
- **Data interface RS-485**, must be ordered at purchase, KERN KXS-A01, **€ 145,-**
- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification, KERN KXS-A02, **€ 170,-**
- **Foot switch**, must be ordered at purchase, KERN KXS-A03, **€ 130,-**
- **Roller conveyor attachment**, with smooth-running, hot-dip galvanised steel rollers with ball bearings, robust aluminium profile frame, KERN YRO-01, **€ 660,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

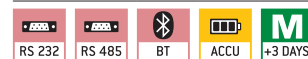
STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Readout [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	€	DKD KERN	€
IXS 6K-4	6	0,2	-	-	6	A	520,-	-	-	963-128	88,-
IXS 10K-4	15	0,5	-	-	6	A	520,-	-	-	963-128	88,-
IXS 10K-4L	15	0,5	-	-	11	B	590,-	-	-	963-128	88,-
IXS 30K-3	30	1	-	-	11	B	590,-	-	-	963-128	88,-
IXS 30K-3L	30	1	-	-	22	C	720,-	-	-	963-129	105,-
IXS 60K-3	60	2	-	-	11	B	590,-	-	-	963-129	105,-
IXS 60K-3L	60	2	-	-	22	C	720,-	-	-	963-129	105,-
IXS 100K-3	150	5	-	-	22	C	720,-	-	-	963-129	105,-
IXS 100K-3L	150	5	-	-	36	D	790,-	-	-	963-129	105,-
IXS 300K-2	300	10	-	-	36	D	790,-	-	-	963-129	105,-
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d]											
IXS 6K-3M	3 6	1 2	1 2	20 40	6	A	520,-	965-228	55,-	963-128	88,-
IXS 10K-3M	6 15	2 5	2 5	40 100	6	A	520,-	965-228	55,-	963-128	88,-
IXS 10K-3LM	6 15	2 5	2 5	40 100	11	B	590,-	965-228	55,-	963-128	88,-
IXS 30K-2M	15 30	5 10	5 10	100 200	11	B	590,-	965-228	55,-	963-128	88,-
IXS 30K-2LM	15 30	5 10	5 10	100 200	22	C	720,-	965-228	55,-	963-128	88,-
IXS 60K-2M	30 60	10 20	10 20	200 400	11	B	590,-	965-229	93,-	963-129	105,-
IXS 60K-2LM	30 60	10 20	10 20	200 400	22	C	720,-	965-229	93,-	963-129	105,-
IXS 100K-2M	60 150	20 50	20 50	400 1000	22	C	720,-	965-229	93,-	963-129	105,-
IXS 100K-2LM	60 150	20 50	20 50	400 1000	36	D	790,-	965-229	93,-	963-129	105,-
IXS 300K-2M	150 300	50 100	50 100	1000 2000	36	D	790,-	965-229	93,-	963-129	105,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

Verification at the factory, we need to know the full address of the location of use.

PREMIUM



Alibi memory

- Ring memory for up to 49,152 measuring results (744 measuring results per day!)
- Saved measuring results cannot be changed or cleared. If the maximum memory capacity is reached, then the oldest value will be overwritten
- In addition to the measuring result, the date, time, tare value, a sequential number and the serial number of the balance are also saved.
- Saved measuring results can be searched and recalled easily
- The alibi memory can also be used for applications which do not require verification
- Complies with WELMEC 2.5

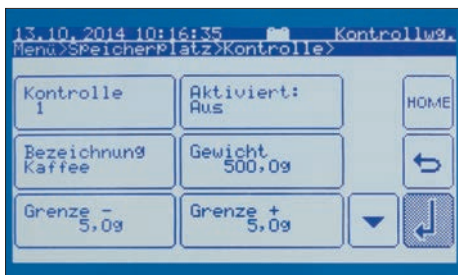


Touchscreen platform scale with enormous range of functions, available also with EC type approval [M]



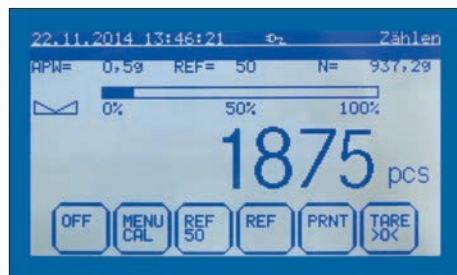
Easy input of text and values

Using large keypad, e.g. up to 80 item descriptions, user name, packaging weights for tare containers etc.



80 memories for each mode

e.g. for Checkweighing, PRE-TARE, reference weight, target value when dispensing, item descriptions, user name, weights for tare containers, etc. Easy to enter using the large-scale keypad



Professional counting function

All relevant counting information at a glance, such as, e.g., reference weight, reference quantity, total count, total weight, tare container weight, available weighing range and much more

Features

- **Convenient recipe weighing:** 99 recipes with 10 components each can be stored in plain text. There is a function to adjust the other components if the initial weight was too high. The actual values and the desired values well as the proportionate percentages can be printed afterwards.
- **Multiplier function:** recipes with the ingredient weights recorded as percentage values can easily be replicated by entering a new target weight. The ideal solution for the preparation of larger containers, bulk packs etc.
- **Rapid function** for shortened stabilisation time with reduced readout
- **Control outputs (optocoupler, digital I/O)** to connect relays, signal lamps, valves etc. (35V/80mA)

Technical data

- Large backlit LCD touch display, digit height 18 mm, screen diagonal 5,8" (127×74 mm)
- Weighing plate dimensions, stainless steel W×D×H
 - A 228×228×95 mm
 - B 315×308×75 mm
 - C 450×350×115 mm
 - D 650×500×142 mm
- Dimensions of display device W×D×H 200×155×68 mm

- Cable length of display device approx., for models with weighing plate size
 - A 1 m
 - B, D 2 m
 - C 0,6 m
- Permissible ambient temperature 10 °C/40 °C

Accessories

- **Rechargeable battery pack external**, operating time up to 20 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- **Signal lamp** for visual support of weighing with tolerance range, KERN IKT-A04, **€ 260,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- **RS-232/USB adapter**, to connect peripheral devices with USB connection, KERN AFH 12, **€ 85,-**
- **Set for underfloor weighing**, consists of platform, bow, hook, only for models with weighing plate B, KERN DS-A01, **€ 200,-**
- **Stand** to elevate display device, for models with weighing plate size B, C, height of stand approx. 480 mm, KERN IKT-A06, **€ 105,-**
- **Wall mount** for display device, KERN IKT-A03, **€ 35,-**
- **Suitable printers** see *Accessories*

Modes

- ① Weighing
- ② Counting
- ③ Dispensing
- ④ Recipe weighing
- ⑤ Checkweighing
- ⑥ Totalising with daily total
- ⑦ Percentage determination
- ⑧ Animal weighing
- ⑨ Surface weight
- ⑩ Density determination, only with B
- ⑪ Rapid function

Functions

- Capacity display with ①, ②, ⑤–⑦, ⑨–⑩
- Dispensing aid (-/+), with ③, ④
- Net/gross display, permanent, with ①, ③–⑤, ⑧–⑪
- Variable reference quantity, with ②
- Automatic reference optimisation, with ②
- PRE-TARE numerical or from the memory unit, with ①–⑦, ⑪
- Entering of item or batch description, operator etc., with ①–⑦, ⑪
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, grammage g/m², or similar, with ⑨
- Date/time, with ①–⑪
- Statistical function, with ①
- GLP printout, with ①–⑪
- Individual formatting of up to 16 printer forms, recipes, operating mode master data in MS Excel, import via RS-232, for examples, see the internet, with ①–⑪

STANDARD



OPTION

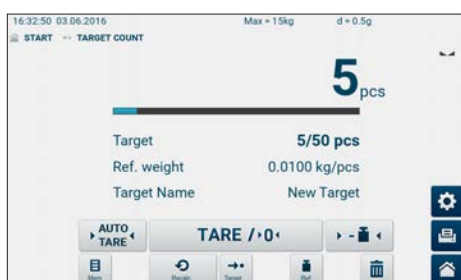


Model	Weighing range [Max] kg	Readout [d] g	Smallest part weight [Normal] g/piece	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options	
							DAKKS Calibr. Certificate	
KERN							DKD KERN	€
IKT 6K0.1	6	0,1	1	8	B	830,-	963-128	88,-
IKT 12K0.2*	12	0,2	2	8	B	830,-	963-128	88,-
IKT 30K0.5	30	0,5	5	8	B	830,-	963-128	88,-
IKT 60K1L	60	1	10	10	C	1050,-	963-129	105,-
IKT 120K2L*	120	2	20	10	C	1050,-	963-129	105,-
IKT 150K2XL	150	2	20	20	D	1200,-	963-129	105,-
IKT 300K5XL	300	5	50	20	D	1200,-	963-129	105,-
High resolution readout								
IKT 3K0.01S	3	0,01	0,1	6	A	920,-	963-127	72,-
IKT 8K0.05	8	0,05	0,5	8	B	850,-	963-128	88,-
IKT 16K0.1	16	0,1	1	8	B	850,-	963-128	88,-
IKT 30K0.1	30	0,1	1	8	B	850,-	963-128	88,-
IKT 30K0.1L	30	0,1	1	10	C	1150,-	963-128	88,-
IKT 36K0.2*	36	0,2	2	8	B	850,-	963-128	88,-
IKT 36K0.2L	36	0,2	2	10	C	1050,-	963-128	88,-
IKT 60K0.2L	60	0,2	2	10	C	1120,-	963-129	105,-
IKT 65K0.5L	65	0,5	5	10	C	1050,-	963-129	105,-
IKT 100K0.5L	100	0,5	5	10	C	1150,-	963-129	105,-
IKT 150K1L	150	1	10	10	C	1150,-	963-129	105,-

* ONLY WHILE STOCKS LAST !



KERN **easytouch** platform scale – the intuitive way to weigh – now also as high resolution version with high-resolution display



Convenient piece-counting function

Standard use: Direct input of the reference quantity or the reference weight
Professional use: Recall of items to be counted from the database with all relevant additional data such as piece weight, name, reference quantity, tare container weight, tolerances. Which means a super-fast sequence when counting: select item – load – count – done!



Fill-to-target function

Programmable target quantity or target weight. A signal will be displayed when the target value is reached



Convenient weighing with tolerance range (Checkweighing)

Standard use: Direct input of the tolerances in grams or percent
Professional use: Recall of items from the database with all relevant additional data such as piece weight, name, reference quantity, tare container weight, tolerances. That leads to a super-fast sequence when portioning, dosing or sorting: Select item – load – check – done!



Features

- **High-quality, rapid processors** allow efficient, delay-free operation
- Thanks to the **intuitive touchscreen concept** and multi-lingual operation (DE, GB, FR, IT, ES, PT, NL, FI, PL, RUS, SE, CZ) the balance can be used easily by inexperienced users, straightaway. For the professional user, the balance provides convenient functions which permit a high level of individualisation and which thereby make operation significantly easier and quicker
- Through a **large memory (256 MB)**, e.g. for item master data, weighing data etc. the balance is the ideal solution when working with a large range of goods or where there are high requirements for record keeping and documentation
- **1** Thanks to the high level of **connectivity** it is easy to connect barcode readers for item recognition, USB sticks for data storage or data transfer to PCs, scales and networks using RS-232 or USB. This means that this range can be used for many different functions in Industry 4.0 applications
- **Convenient recipe weighing**
Standard use: Direct input of the recipe ingredients in grams or percent
Professional use: Recall of items from the database with all relevant additional data such as target value, tolerances, name, tare

container weight. That leads to a super-fast sequence when recipe-weighing: select recipe – weigh – done!

- A graphic signal helps when dosing individual recipe ingredients. An information column on the lefthand edge of the screen allows you to see at a glance which ingredients have already been weighed (proportionately)
- **Multiplier function:** recipes and their ingredients can be multiplied at will at the press of a button, which is ideal for the production of larger containers, bulk packs etc.
- **2 Platform:** weighing plate stainless steel, painted steel base, silicone-coated aluminium load cell, protection against dust and water splashes IP65

Technical data

- Large backlit LCD touch display, digit height 12 mm, screen diagonal 7" (155×85 mm)
- Weighing plate dimensions, stainless steel W×D×H
 - A** 300×240×100 mm
 - B** 400×300×128 mm, see larger picture
 - C** 500×400×137 mm
 - D** 650×500×142 mm
- Dimensions of display device W×D×H 252×152×133,4 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- **Stand** to elevate display device, height of stand approx. 330 mm, KERN IFB-A01, **€ 50,-**
- **Stand** to elevate display device, height of stand approx. 600 mm, KERN IFB-A02, **€ 60,-**
- **Stand** to elevate display device, height of stand approx. 800 mm, KERN BFS-A07, **€ 120,-**
- **Rechargeable battery pack internal**, operating time up to 7 h with backlight, charging time approx. 12 h, KERN KFB-A01, **€ 35,-**
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp or barcode reader and printer, KERN CFS-A04, **€ 35,-**
- **Software** for rapid and easy processing of the database at the PC (exporting, processing, importing), KERN SET-1.0, **€ 150,-**

STANDARD



OPTION



Model	Weighing range [Max] kg	Readout [d] g	Reproducibility g	Linearity g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options	
								DAKKS Calibr. Certificate	
KERN								DKD KERN	€
IFT 6K-4	6	0,2	0,2	0,6	6	A	1490,-	963-128	88,-
IFT 10K-4	15	0,5	0,5	1,5	6	A	1440,-	963-128	88,-
IFT 10K-4L	15	0,5	0,5	1,5	9	B	1540,-	963-128	88,-
IFT 30K-3A	30	1	1	3	9	B	1540,-	963-128	88,-
IFT 60K-3	60	2	2	6	9	B	1540,-	963-129	105,-
IFT 60K-3L	60	2	2	6	14	C	1640,-	963-129	105,-
IFT 100K-3	150	5	5	15	14	C	1540,-	963-129	105,-
IFT 100K-3L	150	5	5	15	22	D	1800,-	963-129	105,-
IFT 300K-2LA	300	10	10	30	22	D	1840,-	963-129	105,-



TIPS FROM THE EXPERTS

As well as our range of scales and microscopes, we can offer you an extensive range of professional measuring technology and testing technology as a comprehensive range of test services.

We will offer you reliable quality at fair prices and with the shortest delivery times. Our product specialists will give you professional advice, will work with you to find the right product and will provide comprehensive support after the purchase too. This ensures a high level of investment security and a good feeling – KERN, the nice balance manufacturer from the wilds of Southern Germany.

For all details on our ranges, please see www.kern-sohn.com or request your own personal catalogues right now: Telephone +49 [0] 7433 9933-0

#2 “Concentrated competence in measuring and testing technology”

The SAUTER measuring technology range covers a large selection of force-measurement devices, measurement devices for coating thickness, material thickness, hardness measurement equipment (Shore, Leeb), calliper gauges, photometers, sound level meters and test benches.

With the SAUTER 2018 **catalogue for measuring technology and test services** you are perfectly equipped for all technical measuring applications.



Albert Sauter, Managing Director
SAUTER measuring equipment



Floor scales/Pallet scales/Drive-through scales

Robust aid for weighing large loads

KERN offers a carefully coordinated range from affordable entry level models, to practical built-in solutions, up to the top level verified models made of stainless steel. Their common feature is the long-lasting industrial quality as well as the high level of protection against dust and spray.

The installation, startup, and possible verification of floor, pallet, and drive-through scales require specialised knowledge, which is the basis for a successful sale. Please ask for our "Floor scale info sheet".

High-capacity scales – ideal for piece counting with large item quantities

The weighing ranges of bench counting scales are often not sufficient to count large quantities, units, palletised items etc. This is where high-performance counting systems are employed as these combine a high-precision reference balance with a high-capacity bulk scale, such as e.g. floor scales, pallet scales or drive-through scales. Your personal KERN customer consultant will be happy to help you setting up the right high-capacity counting system.

Individuality is the trump card – we create your ideal scale!

Do you have any special requests, which are not covered by our extensive floor scale range? Then why not configure your ideal model yourself, it's quick, individual and affordable.

Of course we can also offer you the complete service and put the required scale combination together for you, including verification. All further details can be found from page 126 ff. or ask your personal customer service agent, he will be pleased to advise you

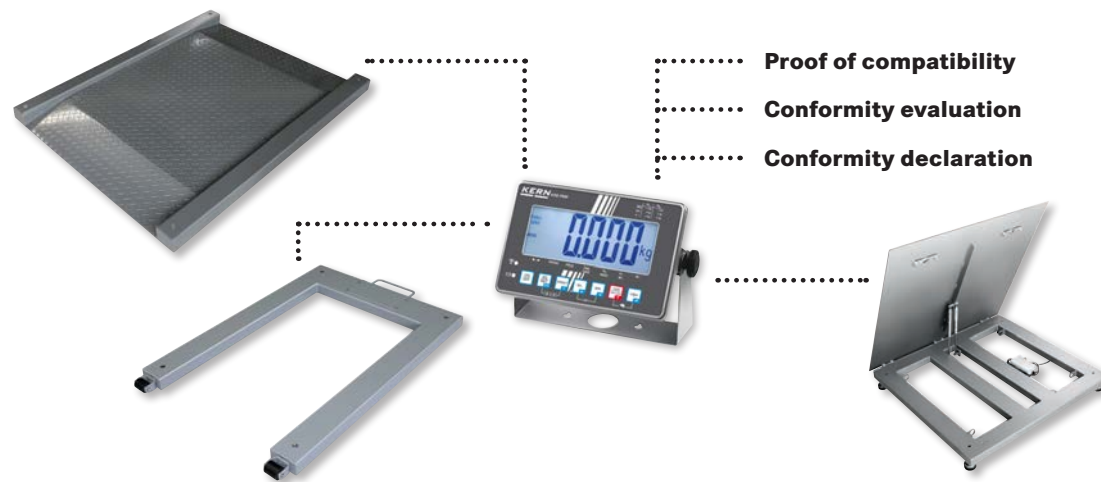
Stephan Ade

Product specialist Floor scales/
Pallet scales/Drive-through scales

Tel. +49 [0] 7433 9933-121

Fax +49 [0] 7433 9933-29121











ade@kern-sohn.com



- Massive steel weighing bridge with IP67 protection
- Optimised price performance ratio
- With EC type approval [M] for applications which require verification

KERN BID

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

Read-out [d] g	Weighing range [Max] kg	Weighing plate W×D×H mm	Model KERN	Price excl. of VAT ex works €	Page	<div>  DAYS  M  CAL EXT  RS 232  PCS  TOL  MOVE  IP  INOX  ACCU </div>									
						For an explanation on the pictos, see the front flap									
100 200	300 600	1000×1000×108	BIC 600K-1S	850,-	107	2		●						●	
100 200	300 600	1200×1500×108	BIC 600K-1	1000,-	107	2		●						●	
200	600	1000×1000×108	BID 600K-1SM	1050,-	108	2	○	●	●	●	●	●	●	●	
200	600	1200×1500×108	BID 600K-1M	1300,-	108	2	○	●	●	●	●	●	●	●	
200	600	1000×1000×85	BFB 600K-1SNM	1100,-	110	2	○	●	●	●	●	●	●	●	○
200	600	1000×1250×85	BFB 600K-1NM	1480,-	110	2	○	●	●	●	●	●	●	●	○
200	600	1000×1000×95	BFS 600K-1SNM	890,-	112	5	○	●	●	●	●	●	●	●	○
200	600	1500×1250×85	BFS 600K-1NM	1190,-	112	5	○	●	●	●	●	●	●	●	○
200	600	1000×1000×85	BFA 600K-1SNM	1160,-	113	5	○	●	○	●	●	●	●	●	○
200	600	1500×1250×85	BFA 600K-1NM	1580,-	113	5	○	●	○	●	●	●	●	●	○
200	600	1000×1000×80	BXS 600K-1SM	1490,-	114	2	○	●	○	●	●	●	●	●	○
200	600	1500×1250×80	BXS 600K-1M	1700,-	114	2	○	●	○	●	●	●	●	●	○
200	600	1000×1000×85	BFN 600K-1SM	2190,-	115	2	○	●	○	●	●	●	●	●	○
200	600	1000×1000×110	BKN 600K-1SM	3400,-	116	5	○	●	○	●	●	●	●	●	○
200	600	1500×1250×110	BKN 600K-1M	4200,-	116	5	○	●	○	●	●	●	●	●	○
200	600	800×120×85	UFA 600K-1S	870,-	118	2		●	●	●	●	●	●	●	○
200	600	1190×840×108	UIB 600K-1	730,-	119	2		●					●		
200	600	1190×840×90	UFB 600K200M	930,-	120	2	○	●	●	●	●	●	●	●	○
200	600	842×1300×90	UFC 600K-1M	1320,-	121	2	○	●	○	●	●	●	●	●	○
200	600	840×1300×90	UFN 600K200IPM	1490,-	122	2	○	●	○	●	●	●	●	●	○
200	600	1600×1200×85	NFB 600K200M	1350,-	123	2	○	●	●	●	●	●	●	●	○
200	600	1800×1420×85	NFB 600K200LM	1550,-	123	2	○	●	●	●	●	●	●	●	○
200	600	1600×1200×25	NFN 600K-1M	2950,-	124	2	○	●	○	●	●	●	●	●	○
200 500	600 1500	1000×1000×108	BIC 1T-4S	850,-	107	2		●						●	
200 500	600 1500	1200×1500×108	BIC 1T-4	1000,-	107	2		●						●	
500	1500	1000×1000×108	BID 1T-4SM	1050,-	108	2	○	●	●	●	●	●	●	●	
500	1500	1200×1000×108	BID 1T-4EM	1200,-	108	2	○	●	●	●	●	●	●	●	
500	1500	1200×1500×108	BID 1T-4M	1300,-	108	2	○	●	●	●	●	●	●	●	
500	1500	1000×1000×100	BFB 1T-4SNM	1110,-	110	2	○	●	●	●	●	●	●	●	○
500	1500	1500×1250×90	BFB 1T-4NM	1480,-	110	2	○	●	●	●	●	●	●	●	○
500	1500	1000×1000×85	BFS 1T-4SNM	890,-	112	5	○	●	●	●	●	●	●	●	○
500	1500	1500×1250×85	BFS 1T-4NM	1190,-	112	5	○	●	●	●	●	●	●	●	○
500	1500	1000×1000×95	BFA 1T-4SNM	1170,-	113	5	○	●	○	●	●	●	●	●	○
500	1500	1500×1250×85	BFA 1T-4NM	1580,-	113	5	○	●	○	●	●	●	●	●	○
500	1500	1000×1000×80	BXS 1.5T-4SM	1490,-	114	2	○	●	○	●	●	●	●	●	○
500	1500	1500×1250×80	BXS 1.5T-4M	1700,-	114	2	○	●	○	●	●	●	●	●	○
500	1500	1000×1000×90	BFN 1T-4SM	2190,-	115	2	○	●	○	●	●	●	●	●	○
500	1500	1495×1245×95	BFN 1.5T0.5M	2690,-	115	2	○	●	○	●	●	●	●	●	○
500	1500	1000×1000×110	BKN 1T-4SM	3500,-	116	5	○	●	○	●	●	●	●	●	○
500	1500	1500×1250×110	BKN 1T-4M	4200,-	116	5	○	●	○	●	●	●	●	●	○
500	1500	1270×170×85	UFA 1.5T0.5	870,-	118	2		●	●	●	●	●	●	●	○
500	1500	1190×840×108	UIB 1.5T-4	730,-	119	2		●					●		
500	1500	1190×840×90	UFB 1.5T0.5M	930,-	120	2	○	●	●	●	●	●	●	●	○
500	1500	840×1360×90	UFC 1T-1M	990,-	121	2	○	●	○	●	●	●	●	●	○
500	1500	840×1300×90	UFN 1.5T0.5IPM	1690,-	122	2	○	●	○	●	●	●	●	●	○
500	1500	1600×1200×85	NFB 1.5T0.5M	1350,-	123	2	○	●	●	●	●	●	●	●	○
500	1500	1800×1400×85	NFB 1.5T0.5LM	1510,-	123	2	○	●	●	●	●	●	●	●	○
500	1500	1600×1200×25	NFN 1.5T-4M	2950,-	124	2	○	●	○	●	●	●	●	●	○
500 1000	1500 3000	1200×1500×108	BIC 3T-3	1000,-	107	2		●						●	
500 1000	1500 3000	1500×1500×108	BIC 3T-3L	1100,-	107	2		●						●	
1000	3000	1200×1500×108	BID 3T-3M	1300,-	108	2	○	●	●	●	●	●	●	●	
1000	3000	1500×1500×108	BID 3T-3LM	1450,-	108	2	○	●	●	●	●	●	●	●	
1000	3000	1500×1250×85	BFB 3T-3NM	1480,-	110	2	○	●	●	●	●	●	●	●	○
1000	3000	1500×1500×85	BFB 3T1LM	1700,-	110	2	○	●	●	●	●	●	●	●	○
1000	3000	1500×1250×85	BFS 3T-3NM	1190,-	112	5	○	●	●	●	●	●	●	●	○
1000	3000	1500×1500×80	BFS 3T-3LM	1490,-	112	5	○	●	●	●	●	●	●	●	○
1000	3000	1500×1250×85	BFA 3T-3NM	1580,-	113	5	○	●	○	●	●	●	●	●	○
1000	3000	1500×1500×85	BFA 3T-3LM	1780,-	113	5	○	●	○	●	●	●	●	●	○
1000	3000	1500×1250×80	BXS 3T-3M	1700,-	114	2	○	●	○	●	●	●	●	●	○
1000	3000	1500×1250×105	BFN 3T-3M	2690,-	115	2	○	●	○	●	●	●	●	●	○
1000	3000	1500×1250×110	BKN 3T-3M	4200,-	116	5	○	●	○	●	●	●	●	●	○
1000	3000	1500×1500×110	BKN 3T-3LM	5200,-	116	5	○	●	○	●	●	●	●	●	○
1000	3000	1270×175×65	UFA 3T1	890,-	118	2		●	●	●	●	●	●	●	○
1000	3000	2100×160×100	UFA 3T-3L	1050,-	118	2		●	●	●	●	●	●	●	○
1000	3000	1190×840×108	UIB 3T-3	730,-	119	2		●					●		
2000	6000	1500×1500×130	BFB 6T-3M	1950,-	110	2	○	●	●	●	●	●	●	●	○
2000	6000	1500×1500×80	BFS 6T-3M	1590,-	112	5	○	●	●	●	●	●	●	●	○
2000	6000	1500×1500×130	BFA 6T-3M	2040,-	113	5	○	●	○	●	●	●	●	●	○
2000	6000	1270×160×100	UFA 6T-3	1190,-	118	2		●	●	●	●	●	●	●	○
2000	6000	2100×160×100	UFA 6T-3L	1490,-	118	2		●	●	●	●	●	●	●	○

News 2018

● = 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 silicone-coated steel load cells, dust and spray protection IP67
- **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
- A clever **plug-in connector** means that you can easily separate the display device and the platform, e.g. for installing the balance in a packing and dispatch bench, pit frame etc. at a later date
- **1** Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation.
KERN – always one step ahead

Technical data

- Large LCD display, digit height 25 mm
- Weighing plate dimensions W×D×H
 - A** 1000×1000×108 mm
 - B** 1200×1500×108 mm
 - C** 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, 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-A02S05, **€ 40,-**
- **Pair of base plates** to fix the weighing bridge to the floor, KERN BIC-A07, **€ 40,-**

- **2 Ascending ramp**, steel, powder coated, for models with weighing plate size
 - A** 1000×1000×108 mm, KERN BIC-A01, **€ 390,-**
 - B** 1200×1000×108 mm, KERN BIC-A02, **€ 430,-**
 - C** 1500×1000×108 mm, KERN BIC-A03, **€ 490,-**
- **3 Stable pit frame**, steel, powder coated, for models with weighing plate size
 - A** 1088×1088×110 mm, KERN BIC-A04, **€ 310,-**
 - B** 1288×1588×110 mm, KERN BIC-A05, **€ 340,-**
 - C** 1588×1588×110 mm, KERN BIC-A06, **€ 360,-**

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

STANDARD

CAL EXT

UNIT

IP 67

BATT

MULTI

DMS

2 DAYS

OPTION

DAKKS

+3 DAYS

Model	Weighing range	Readout	Net weight	Weighing plate	Price excl. of VAT ex works €	Options	
						DAKKS Calibr. Certificate	
KERN	[Max] kg	[d] kg	approx. kg		€	DKD KERN	€
Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d].							
BIC 600K-1S	300 600	0,1 0,2	130	A	850,-	963-130	165,-
BIC 600K-1	300 600	0,1 0,2	150	B	1000,-	963-130	165,-
BIC 1T-4	600 1500	0,2 0,5	150	B	1000,-	963-130	165,-
BIC 1T-4S	600 1500	0,2 0,5	130	A	850,-	963-130	165,-
BIC 3T-3	1500 3000	0,5 1	150	B	1000,-	963-132	440,-
BIC 3T-3L	1500 3000	0,5 1	150	C	1100,-	963-132	440,-

Price reduction

NEW



11

Floor scale with EC type approval [M]* and the best price-to-performance ratio



Features

- **NEW! BID 1T-4EM:** Compact special size, especially for weighing europallets
- **1 Weighing bridge:** out of anti-slip corrugated steel, 4 silicone-coated steel load cells, dust and spray protection IP67
- **Easy levelling of the weighing bridge** as well as **access to the junction box** from above
- **2 Display device:** for details see KERN KFB-TM
- **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
- **Searching and remote control of the balance** using external control devices or computers with the KERN Communication Protocol (KCP). KCP is a standardised interface command structure for KERN balances and other instruments which allows you to recall and manage all relevant parameters and device functions. You can therefore simply connect KERN devices with KCP to computers, industrial control systems and other digital systems. In a large number of cases the KCP is compatible with the MT-SICS protocol. Only possible through data interface RS-232, other interfaces on request.
- **3 Did you know?** Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation.
KERN – always one step ahead

Technical data

- Large LCD display, digit height 25 mm
- Weighing plate dimensions W×D×H
 - 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 260×115×70 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, **€ 40,-**
- **Pair of base plates** to fix the weighing bridge to the floor, KERN BIC-A07, **€ 40,-**
- **4 Ascending ramp**, steel, powder coated, for models with weighing plate size
 - A, B** 1000×1000×108 mm, KERN BIC-A01, **€ 390,-**
 - C** 1200×1000×108 mm, KERN BIC-A02, **€ 430,-**
 - D** 1500×1000×108 mm, KERN BIC-A03, **€ 490,-**
- **5 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, **€ 310,-**
 - B** 1338×1088×110 mm, KERN BIC-A08, **€ 350,-**
 - C** 1288×1588×110 mm, KERN BIC-A05, **€ 340,-**

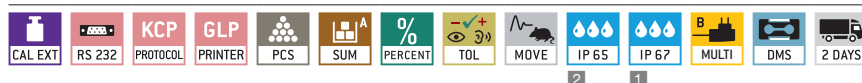
D 1588×1588×110 mm, KERN BIC-A06, **€ 360,-**

- **Benchtop stand incl. wall mount** for display device, KERN EOC-A04, **€ 30,-**
- **Rechargeable battery pack internal**, operating time up to 43 h without backlight, charging time approx. 3 h, KERN KFB-A01, **€ 35,-**
- **USB data interface**, for transferring weighing to the PC, printer, USB sticks etc., KERN KIB-A03, **€ 120,-**
- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase, KERN KIB-A04, **€ 110,-**
- **WLAN interface** for wireless connection of the balance to networks and WLAN capable devices, such as tablets, laptops or smartphones, must be ordered at purchase, please ask for delivery time, KERN KIB-A10, **€ 120,-**
- **Digital I/O interface (8 in/8 out)**, KIB-A09, **€ 130,-**
- **Ethernet data interface**, to connect an IP-based Ethernet network, must be ordered at purchase, KERN KIB-A02, **€ 150,-**
- **Signal lamp, including interface**, for visual support of weighing with tolerance range, KERN KIB-A06, **€ 320,-**

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

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

STANDARD



OPTION

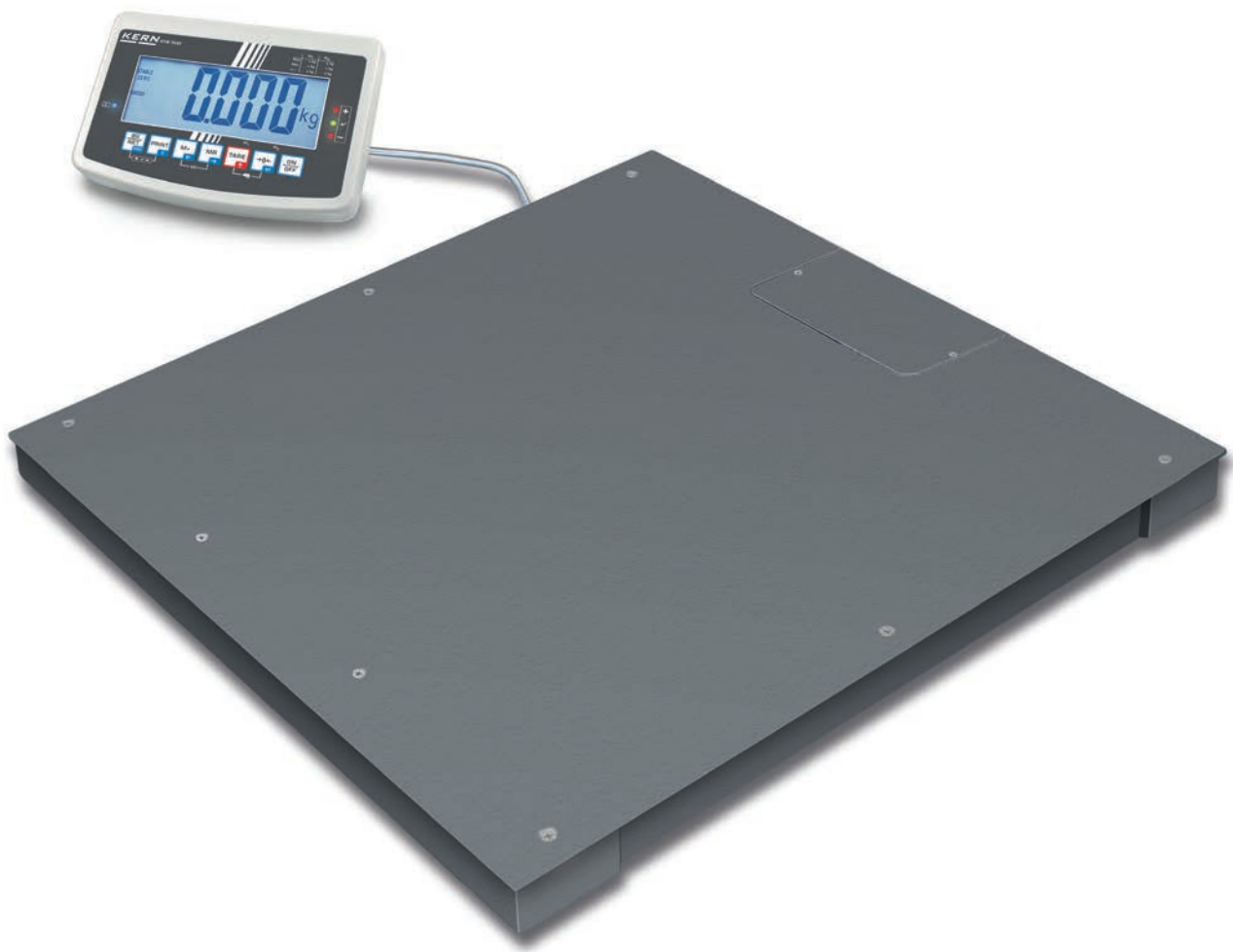


FACTORY



Model	Weighing range [Max] kg	Readout = Verif. value [d] = [e] kg	Minimal load [Min] kg	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
							Verification *		DAKKS Calibr. Certificate	
							KERN	€	KERN	€
BID 600K-1SM	600	0,2	4	130	A	1050,-	965-230	132,-	963-130	165,-
BID 600K-1M	600	0,2	4	150	C	1300,-	965-230	132,-	963-130	165,-
BID 1T-4SM	1500	0,5	10	130	A	1050,-	965-230	132,-	963-130	165,-
BID 1T-4M	1500	0,5	10	150	C	1300,-	965-230	132,-	963-130	165,-
BID 1T-4EM	1500	0,5	10	140	B	1200,-	965-230	132,-	963-130	165,-
BID 3T-3M	3000	1	20	150	C	1300,-	965-232	200,-	963-132	440,-
BID 3T-3LM	3000	1	20	150	D	1450,-	965-232	200,-	963-132	440,-

* on request



11

Weighing bridge with screwed-on weighing plate (IP67) and XXL display device, with EC type approval [M]



Weighing plate can be unscrewed

The weighing plate can be conveniently unscrewed for maintenance or cleaning purposes (weighing plate size **A**, **B**)



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



Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation.
KERN – always one step ahead



Features

- **Weighing plate** **A**, **B** screwed on from the top, so it's easy to remove, hygienic and easy to clean
- **1 Weighing bridge:** steel, painted, weighing plate size **C**, **D** corrugated steel plate, welded, 4 silicone-coated steel load cells, dust and spray protection IP67
- **Easy levelling of the weighing bridge** as well as **access to the junction box** from above
- **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

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions weighing plate W×D×H
 - A** 1000×1000×85 mm
 - B** 1500×1250×85 mm
 - C** 1500×1500×85 mm
 - D** 1500×1500×130 mm
- Dimensions of display device W×D×H 250×160×58 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 KFB-A02S05, **€ 40,-**
- **2 Stand** to elevate display device, height of stand approx. 800 mm, KERN BFS-A07, **€ 120,-**
- **Pair of base plates** to fix the weighing bridge to the floor, for models with weighing plate size
 - A**, **B**, **C** KERN BFS-A06N, **€ 70,-**
 - D** KERN BFS-A10, **€ 60,-**
- **3 Ascending ramp**, steel, lacquered, for models with weighing plate size
 - A** KERN BFS-A01N, **€ 390,-**
 - B** KERN BFS-A02N, **€ 350,-**
 - C** KERN BFS-A09, **€ 410,-**
 - D** KERN BFS-A11, **€ 500,-**
- **4 Stable pit frame**, steel, lacquered, for models with weighing plate size
 - A** KERN BFS-A03N, **€ 310,-**
 - B** KERN BFS-A04N, **€ 370,-**
 - C** KERN BFS-A08, **€ 365,-**
- **Rechargeable battery pack internal**, operating time up to 35 h without backlight, charging time approx. 10 h, must be ordered at purchase, KERN KFB-A01, **€ 35,-**
- **Signal lamp** for visual support of weighing with tolerance range, KERN CFS-A03, **€ 250,-**

- **Large display with superior display size**, KERN YKD-A02, **€ 220,-**
- **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, **€ 160,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

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

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

STANDARD



OPTION



FACTORY



Model	Weighing range [Max]	Readout = Verif. value [d] = [e] kg	Minimal load [Min] kg	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
							Verification		DAkks Calibr. Certificate	
							KERN	€	KERN	€
KERN	kg									
BFB 600K-1SNM	600	0,2	4	105	A	1100,-	965-230	132,-	963-130	165,-
BFB 600K-1NM	600	0,2	4	135	B	1480,-	965-230	132,-	963-130	165,-
BFB 1T-4SNM	1500	0,5	10	100	A	1110,-	965-230	132,-	963-130	165,-
BFB 1T-4NM	1500	0,5	10	135	B	1480,-	965-230	132,-	963-130	165,-
BFB 3T-3NM	3000	1	20	135	B	1480,-	965-232	200,-	963-132	440,-
BFB 3T1LM	3000	1	20	155	C	1550,-	965-232	200,-	963-132	440,-
BFB 6T-3M	6000	2	40	210	D	1950,-	965-232	200,-	963-132	440,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

Verification at the factory, we need to know the full address of the location of use.

Price reduction



Floor scale with screwed-on weighing plate (IP67), piece-counting function, 99 item memories and EC type approval [M]

Features

- **Tough industry standard** suitable for use in harsh industrial applications
- **1 Weighing plate screwed on from the top**, so it's easy to remove, hygienic and easy to clean
- **2 Weighing bridge:** steel, painted, weighing plate size **C**, **D** corrugated steel plate, welded, 4 silicone-coated steel load cells, dust and spray protection IP67. Weighing bridge can also be delivered as component without the display device, for details see KERN KFP-V20 IP67
- **Easy levelling of the weighing bridge** as well as **access to the junction box** from above
- **Ergonomic 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.
- **Benchtop stand incl. wall mount** for display device as standard

- **100 item memories** for master data such as reference weight, reference quantity, container weight (PRE-TARE) etc.
- Printout with date and time
- **Totalising** of pieces when counting
- **Protective working cover** included with delivery

Technical data

- Large backlit LCD displays, digit height 16 mm
- Weighing plate dimensions W×D×H
 - A** 1000×1000×95 mm
 - B** 1500×1250×85 mm
 - C** 1500×1500×80 mm
 - D** 1500×1500×80 mm
- Dimensions of display device W×D×H 250×160×60 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 KFB-A02S05, **€ 40,-**
- **3 Stand** to elevate display device, height of stand approx. 800 mm, KERN BFS-A07, **€ 120,-**
- **Pair of base plates** to fix the weighing bridge to the floor, KERN BFS-A06N, **€ 70,-**
- **Ascending ramp**, steel, lacquered, for models with weighing plate size
 - A** KERN BFS-A01N, **€ 390,-**
 - B** KERN BFS-A02N, **€ 350,-**
 - C** KERN BFS-A09, **€ 410,-**
 - D** KERN BFS-A11, **€ 500,-**
- **Stable pit frame**, steel, lacquered, for models with weighing plate size
 - A** KERN BFS-A03N, **€ 310,-**
 - B** KERN BFS-A04N, **€ 370,-**
 - C** KERN BFS-A08, **€ 365,-**
 - D** KERN BFS-A12, **€ 500,-**
- **Rechargeable battery pack internal**, operating time up to 40 h, without backlight, charging time approx. 12 h, must be ordered at purchase, KERN KFB-A01, **€ 35,-**
- **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, **€ 160,-**

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

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

STANDARD



OPTION



FACTORY



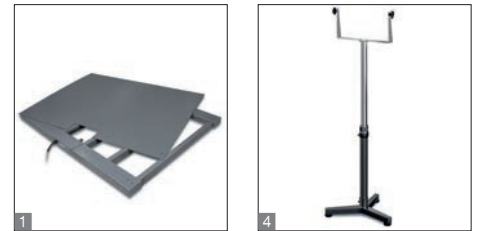
Model	Weighing range [Max] kg	Readout = Verif. value [d] = [e] kg	Minimal load [Min] kg	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
							Verification		DAkkS Calibr. Certificate	
							KERN	€	KERN	€
KERN										
BFS 600K-1SNM	600	0,2	4	105	A	890,-	965-230	132,-	963-130	165,-
BFS 600K-1NM	600	0,2	4	135	B	1 190,-	965-230	132,-	963-130	165,-
BFS 1T-4SNM	1500	0,5	10	105	A	890,-	965-230	132,-	963-130	165,-
BFS 1T-4NM	1500	0,5	10	135	B	1 190,-	965-230	132,-	963-130	165,-
BFS 3T-3NM	3000	1	20	135	B	1 190,-	965-232	200,-	963-132	440,-
BFS 3T-3LM	3000	1	20	160	C	1 490,-	965-232	200,-	963-132	440,-
BFS 6T-3M	6000	2	40	210	D	1 590,-	965-232	200,-	963-132	440,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

Verification at the factory, we need to know the full address of the location of use.

! ONLY WHILE STOCKS LAST !

Price reduction



Weighing bridge with screwed-on weighing plate (IP67) and stainless steel display device (IP65), with EC type approval [M]

Features

- **Tough industry standard** suitable for use in harsh industrial applications
- **1 Weighing plate** **C**, **D** **screwed on from the top**, so it's easy to remove, hygienic and easy to clean
- **2 Weighing bridge:** steel, painted, weighing plate size **C**, **D** corrugated steel plate, welded, 4 silicone-coated steel load cells, dust and spray protection IP67. Weighing bridge can also be delivered as component without the display device, for details see KERN KFP-V20 IP67
- **Easy levelling of the weighing bridge** as well as **access to the junction box** from above
- **3 Display device:** stainless steel, protection against dust and water splashes IP65
- **Benchtop stand incl. wall mount** for display device as standard

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of display device W×D×H 266×165×96 mm
- Cable length of display device approx. 5 m
- Rechargeable battery pack internal, operating time up to 35 h without backlight, charging time approx. 12 h
- Permissible ambient temperature -10 °C/40 °C

Accessories

- **4 Stand** to elevate display device, height of stand approx. 800 mm, KERN BFS-A07, **€ 120,-**
- **Pair of base plates** to fix the weighing bridge to the floor, for models with weighing plate size **A**, **B**, **C** KERN BFS-A06N, **€ 70,-**
D KERN BFS-A10, **€ 60,-**

- **Ascending ramp**, steel, lacquered, for models with weighing plate size **A** KERN BFS-A01N, **€ 390,-**
B KERN BFS-A02N, **€ 350,-**
C KERN BFS-A09, **€ 410,-**
D KERN BFS-A11, **€ 500,-**
- **Stable pit frame**, steel, lacquered, for models with weighing plate size **A** KERN BFS-A03N, **€ 310,-**
B KERN BFS-A04N, **€ 370,-**
C KERN BFS-A08, **€ 365,-**
D KERN BFS-A12, **€ 500,-**
- **Rechargeable battery pack internal**, operating time up to 35 h without backlight, charging time approx. 12 h, KERN GAB-A04, **€ 40,-**
- **Data interface RS-232**, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KFN-A01, **€ 95,-**
- **Large display with superior display size**, KERN YKD-A02, **€ 220,-**
- **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, **€ 160,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

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

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

STANDARD



OPTION



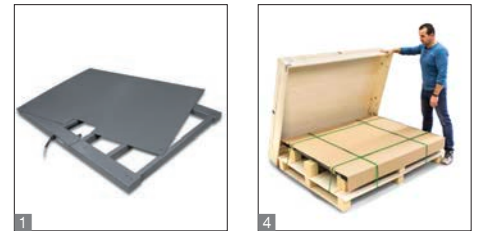
FACTORY



Model	Weighing range [Max] kg	Readout = Verif. value [d] = [e] kg	Minimal load [Min] kg	Net weight approx. kg	Weighing plate W×D×H mm	Price excl. of VAT ex works €	Options			
							Verification		DAkkS Calibr. Certificate	
KERN							KERN	€	KERN	€
BFA 600K-1SNM	600	0,2	4	105	1000×1000×85	1160,-	965-230	132,-	963-130	165,-
BFA 600K-1NM	600	0,2	4	135	1500×1250×85	1580,-	965-230	132,-	963-130	165,-
BFA 1T-4SNM	1500	0,5	10	105	1000×1000×85	1170,-	965-230	132,-	963-130	165,-
BFA 1T-4NM	1500	0,5	10	135	1500×1250×85	1580,-	965-230	132,-	963-130	165,-
BFA 3T-3NM	3000	1	20	135	1500×1250×85	1580,-	965-232	200,-	963-132	440,-
BFA 3T-3LM	3000	1	20	160	1500×1500×85	1780,-	965-232	200,-	963-132	440,-
BFA 6T-3M	6000	2	40	210	1500×1500×130	2040,-	965-232	200,-	963-132	440,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.
Verification at the factory, we need to know the full address of the location of use.

! ONLY WHILE STOCKS LAST !



Weighing bridge with screwed-on weighing plate (IP67) and stainless steel display device (IP68), with EC type approval [M]

Features

- **Tough industry standard** suitable for use in harsh industrial applications
- **1 Weighing plate screwed on from the top**, so it's easy to remove, hygienic and easy to clean
- **2 Weighing bridge**: steel, painted, extremely resistant to bending due to material thickness, 4 silicone-coated steel load cells, dust and spray protection IP67. Weighing bridge can also be delivered as component without the display device, for details see KERN KXP-V20 IP67
- **Easy levelling of the weighing bridge** as well as **access to the junction box** from above
- **3 Display device**: stainless steel, protection against dust and water splashes IP68, for industrial applications, hygienic and easy to clean, integrated power supply
- **Benchtop stand incl. wall mount** for display device as standard

- **Totalising** of weights and piece counts
- Thanks to **interfaces** such as RS-232, RS-485 and Bluetooth (optional) the scale can easily be connected to existing networks and facilitates the data exchange between the scale and printer
- **4 Did you know?** Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN – always one step ahead

Technical data

- Large backlit LCD display, digit height 55 mm
- Weighing plate dimensions, steel, painted W×D×H
 - A** 1000×1000×80 mm
 - B** 1500×1250×80 mm
- Dimensions of display device W×D×H 232×170×80 mm
- Cable length of display device approx. 5 m

- Permissible ambient temperature -10 °C/40 °C

Accessories

- **Stand** to elevate display device, height of stand approx. 750 mm, KERN YKP-02, **€ 210,-**
- **Pair of base plates** to fix the weighing bridge to the floor, KERN BXS-A03, **€ 70,-**
- **Ascending ramp**, steel, lacquered, for models with weighing plate size
 - A** KERN BXS-A01, **€ 350,-**
 - B** KERN BXS-A02, **€ 400,-**
- **Rechargeable battery pack internal**, operating time up to 80 h, without backlight, charging time approx. 12 h, KERN GAB-A04, **€ 40,-**
- **Data interface RS-232**, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KXS-A04, **€ 100,-**
- **Data interface RS-485**, must be ordered at purchase, KERN KXS-A01, **€ 145,-**
- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification, KERN KXS-A02, **€ 170,-**
- **Foot switch**, must be ordered at purchase, KERN KXS-A03, **€ 130,-**
- **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, **€ 160,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

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

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

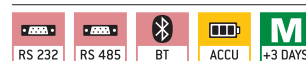
STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Readout = Verif. value [d] = [e] kg	Minimal load [Min] kg	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
							Verification		DAKKS Calibr. Certificate	
							KERN	€	KERN	€
KERN										
BXS 600K-1SM	600	0,2	4	100	A	1490,-	965-230	132,-	963-130	165,-
BXS 600K-1M	600	0,2	4	145	B	1700,-	965-230	132,-	963-130	165,-
BXS 1.5T-4SM	1500	0,5	10	100	A	1490,-	965-230	132,-	963-130	165,-
BXS 1.5T-4M	1500	0,5	10	145	B	1700,-	965-230	132,-	963-130	165,-
BXS 3T-3M	3000	1	20	145	B	1700,-	965-232	200,-	963-132	440,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

Verification at the factory, we need to know the full address of the location of use.

1 ONLY WHILE STOCKS LAST !



Stainless steel weighing bridge with screwed-on weighing plate (IP68) and stainless steel display device (IP65), with EC type approval [M]

Features

- **Tough industry standard** suitable for use in harsh industrial applications
- **Weighing plate screwed on from the top** with stainless steel screws, so it's easy to remove, hygienic and easy to clean
- **1 Weighing bridge:** stainless steel, extremely resistant to bending due to material thickness, 4 welded stainless steel load cells, dust and spray protection IP68. Weighing bridge can also be delivered as component without the display device, for details see KERN KFP-V40
- Your support in a **HACCP**-compliant quality system
- **Easy levelling of the weighing bridge** as well as **access to the junction box** from above
- **2 Display device:** stainless steel, protection against dust and water splashes IP65, hygienic and easy to clean. The display device can also be delivered as a component without the weighing bridge, for details see KERN KFN-TM

- **Benchtop stand incl. wall mount** for display device as standard
- **Weighing with tolerance range (check-weighing):** a visual and audible signal helps with portioning, dispensing or grading
- **Totalising** of weights and piece counts
- **3** Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN – always one step ahead

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of display device W×D×H 266×165×96 mm
- Cable length of display device approx. 5 m
- Weighing plate dimensions W×D×H
 - A** 1000×1000×85 mm
 - B** 1500×1250×80 mm
- Rechargeable battery pack internal, operating time up to 35 h without backlight, charging time approx. 12 h



- Permissible ambient temperature -10 °C/40 °C

Accessories

- **4 Stand** to elevate display device, height of stand approx. 800 mm, KERN BFN-A04, **€ 285,-**
- **Pair of base plates** to fix the weighing bridge to the floor, KERN BFN-A03, **€ 70,-**
- **5 Ascending ramp**, stainless steel, for models with weighing plate size
 - A** KERN BFN-A05, **€ 1090,-**
 - B** KERN BFN-A01, **€ 1150,-**
- **6 Stable pit frame**, stainless steel, for models with weighing plate size
 - A** KERN BFN-A06, **€ 750,-**
 - B** KERN BFN-A02, **€ 890,-**
- **Data interface RS-232**, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KFN-A01, **€ 95,-**
- **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, **€ 160,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

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

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

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Readout = Verif. value [d] = [e] kg	Minimal load [Min] kg	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
							Verification		DAkkS Calibr. Certificate	
							KERN	€	KERN	€
KERN										
BFN 600K-1SM	600	0,2	4	100	A	2190,-	965-230	132,-	963-130	165,-
BFN 1T-4SM	1500	0,5	10	100	A	2190,-	965-230	132,-	963-130	165,-
BFN 1.5T0.5M	1500	0,5	10	135	B	2690,-	965-230	132,-	963-130	165,-
BFN 3T-3M	3000	1	20	135	B	2690,-	965-232	200,-	963-132	440,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

Verification at the factory, we need to know the full address of the location of use.

1 ONLY WHILE STOCKS LAST !



11

Stainless steel floor scale with folding weighing plate and complete dust and spray protection to IP68 and EC type approval [M]



To clean or service the floor scale, the weighing plate can be opened easily using two retractable handles, without damaging your back



Two high-performance absorbers ensure maximum comfort when lifting and lowering the weighing plate



Cavities and concealed edges are avoided by using **hermetically welded section tubes**. When combined with the clever frame structure, which reduces potential contamination areas, the result is a floor scale design which is of special benefit when used in areas where hygiene is particularly important.



Features

- **Tough industry standard** suitable for use in harsh industrial applications
- Your support in a **HACCP**-compliant quality system
- **Weighing bridge:** stainless steel, extremely resistant to bending due to material thickness, 4 welded 17-4 PH / 1.4542 load cells, dust and spray protection IP68. Weighing bridge can also be delivered as component without the display device, for details see KERN KKP-V40
- **Easy levelling of the weighing bridge** as well as **access to the junction box** from above
- **1 Display device:** stainless steel, protection against dust and water splashes IP68, for industrial applications, hygienic and easy to clean, integrated power supply. The display device can also be delivered as a component without the weighing bridge, for details see KERN KXS-TM
- **2 Benchtop stand incl. wall mount** for display device as standard
- **Weighing with tolerance range (check-weighing):** A visual and audible signal assists the rapid checking of items on palettes
- **Totalising** of weights and piece counts
- **2** Thanks to **interfaces** such as RS-232, RS-485 and Bluetooth (optional) the scale can easily be connected to existing networks and facilitates the data exchange between the scale and printer
- Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN – always one step ahead

Technical data

- Large backlit LCD display, digit height 55 mm
- Cable length of display device approx. 5 m
- Weighing plate dimensions W×D×H
 - A** 1000×1000×110 mm
 - B** 1500×1250×110 mm
 - C** 1500×1500×110 mm
- Permissible ambient temperature -10 °C/40 °C

Accessories

- **Stand** to elevate display device, height of stand approx. 750 mm, KERN YKP-02, **€ 210,-**
- **Pair of base plates** to fix the weighing bridge to the floor, KERN BKN-A07, **€ 60,-**
- **Ascending ramp**, stainless steel, not included, for models with weighing plate size
 - A** KERN BKN-A01, **€ 1300,-**
 - B** KERN BKN-A02, **€ 1500,-**
 - C** KERN BKN-A03, **€ 1750,-**
- **Stable pit frame**, stainless steel, for models with weighing plate size
 - A** KERN BKN-A04, **€ 1400,-**
 - B** KERN BKN-A05, **€ 1600,-**
 - C** KERN BKN-A06, **€ 1700,-**
- **Rechargeable battery pack internal**, operating time up to 80 h without backlight, charging time approx. 12 h, KERN GAB-A04, **€ 40,-**
- **Foot switch**, must be ordered at purchase, KERN KXS-A03, **€ 130,-**
- **Data interface RS-232**, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KXS-A04, **€ 100,-**
- **Data interface RS-485**, must be ordered at purchase, KERN KXS-A01, **€ 145,-**

- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification, KERN KXS-A02, **€ 170,-**
- **RS-232/WiFi adapter** for wireless connection to networks and WLAN capable devices, such as tablets, laptops or smartphones, KERN YKI-03, **€ 750,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

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

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

Note: We will be happy to create custom products for you, such as, for example, weighing plates with holes and hooks in place of handles, other weighing plate sizes, other materials (steel grades) and much more

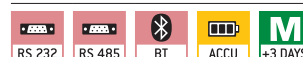
STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Readout = Verif. value [d] = [e] kg	Minimal load [Min] kg	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
							Verification		DAkkS Calibr. Certificate	
							KERN	€	KERN	€
KERN										
BKN 600K-1SM	600	0,2	4	100	A	3400,-	965-230	132,-	963-130	165,-
BKN 600K-1M	600	0,2	4	130	B	4200,-	965-230	132,-	963-130	165,-
BKN 1T-4SM	1500	0,5	10	100	A	3500,-	965-230	132,-	963-130	165,-
BKN 1T-4M	1500	0,5	10	130	B	4200,-	965-230	132,-	963-130	165,-
BKN 3T-3M	3000	1	20	130	B	4200,-	965-232	200,-	963-132	440,-
BKN 3T-3LM	3000	1	20	160	C	5200,-	965-232	200,-	963-132	440,-



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

Features

- Flexible solution for weighing large, bulky or long items
- **High mobility:** thanks to rechargeable battery operation (optional), compact, light-weight construction, it is suitable for the use in several locations
- **1 Weighing beams:** steel, painted, 4 silicone-coated aluminium load cells, protection against dust and water splashes IP67, Weighing beams can also be delivered as components without the display device, for details see KERN KFA-V20
- **Sturdy handles** for transporting the weighing beams
- **2 KERN UFA-L:** Each weighing beam has a roller and handle for easy transport of the scale
- **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

- **NEW:** KERN UFA-S, new model with short weighing beams, ideal for weighing compact items or animals in transport boxes
- **3 Did you know?** Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN – always one step ahead

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
- Cable length weighing beams approx. 2,5 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN KFB-A02S05, **€ 40,-**
- **4 Stand** to elevate display device, height of stand approx. 800 mm, KERN BFS-A07, **€ 120,-**
- **Rechargeable battery pack internal**, operating time up to 35 h without backlight, charging time approx. 10 h, KERN KFB-A01, **€ 35,-**
- **5 Signal lamp** for visual support of weighing with tolerance range, KERN CFS-A03, **€ 250,-**
- **6 Large display with superior display size**, KERN YKD-A02, **€ 220,-**
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp or barcode reader and printer, KERN CFS-A04, **€ 35,-**
- **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, **€ 160,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

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

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Readout [d] kg	Net weight approx. kg	Dimensions weighing beam W×D×H mm	Price excl. of VAT ex works €	Options	
						DAkKS Calibr. Certificate	
KERN						DKD KERN	€
UFA 600K-1S	600	0,2	36	800×120×100	870,-	963-130	165,-
UFA 1.5T0.5	1500	0,5	38	1200×120×100	870,-	963-130	165,-
UFA 3T1	3000	1	38	1200×120×100	890,-	963-132	440,-
UFA 3T-3L	3000	1	60	2000×120×100	1050,-	963-132	440,-
UFA 6T-3	6000	2	85	1200×120×80	1190,-	963-132	440,-
UFA 6T-3L	6000	2	135	2100×160×85	1490,-	963-132	440,-



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

Features

- **High mobility:** thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations
 - **1 Load support:** steel, powder coated, 4 silicone-coated aluminium load cells, protection against dust and water splashes IP67
 - **2** The scale can be easily transported using **rollers** and a **handle** and does not require much storage space
 - **Totalising** of weights and piece counts
 - **Protective working cover** included with delivery
 - **3** Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation.
- KERN – always one step ahead

Technical data

- Large LCD display, digit height 25 mm
- Dimensions of display device W×D×H 260×115×70 mm
- Cable length of display device approx. 5 m
- Optional battery operation, 4×1.5 V AA not included, 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-A02S05-2017, **€ 40,-**
- **Stand** to elevate display device, height of stand approx. 1000 mm, KERN MWS-A01-2017, **€ 70,-**

STANDARD

CAL EXT

UNIT

MOVE

IP 67

BATT

MULTI

DMS

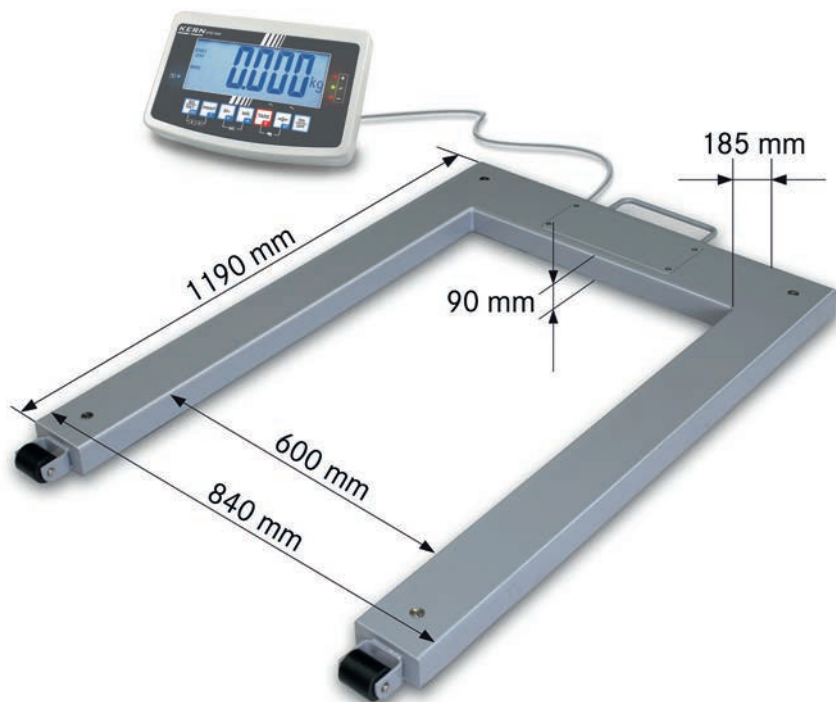
2 DAYS

OPTION

DAKKS

+3 DAYS

Model	Weighing range	Readout	Net weight	Price excl. of VAT ex works €	Options	
					DAKKS Calibr. Certificate	
KERN	[Max] kg	[d] kg	approx. kg	€	DKD KERN	€
UIB 600K-1	600	0,2	55	730,-	963-130	165,-
UIB 1.5T-4	1500	0,5	55	730,-	963-130	165,-
UIB 3T-3	3000	1	55	730,-	963-132	440,-



Pallet scale with steel load support (IP67) and EC type approval [M]

Features

- **High mobility:** thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- **1 Load support:** steel, powder coated, 4 silicone-coated aluminium load cells, protection against dust and water splashes IP67, Weighing bridge can also be delivered as component without the display device, for details see KERN KFV-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 pallets
- **Counting system:** A counting scale can be connected using the data interface, and this can be used to create a high-capacity counting system for counting the very small parts in largest quantities
- **Totalising** of weights and piece counts

- **Protective working cover** included with delivery
- **2** Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN – always one step ahead

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of display device W×D×H 250×160×58 mm
- Cable length of display device approx. 5 m
- Net weight approx. 55 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN KFB-A02S05, € 40,-
- **3 Stand** to elevate display device, height of stand approx. 800 mm, KERN BFS-A07, € 120,-

- **Rechargeable battery pack internal**, operating time up to 35 h without backlight, charging time approx. 12 h, KERN KFB-A01, € 35,-
- **4 Signal lamp** for visual support of weighing with tolerance range, KERN CFS-A03, € 250,-
- **5 Large display with superior display size**, KERN YKD-A02, € 220,-
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp or barcode reader and printer, KERN CFS-A04, € 35,-
- **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, € 160,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

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

STANDARD



OPTION

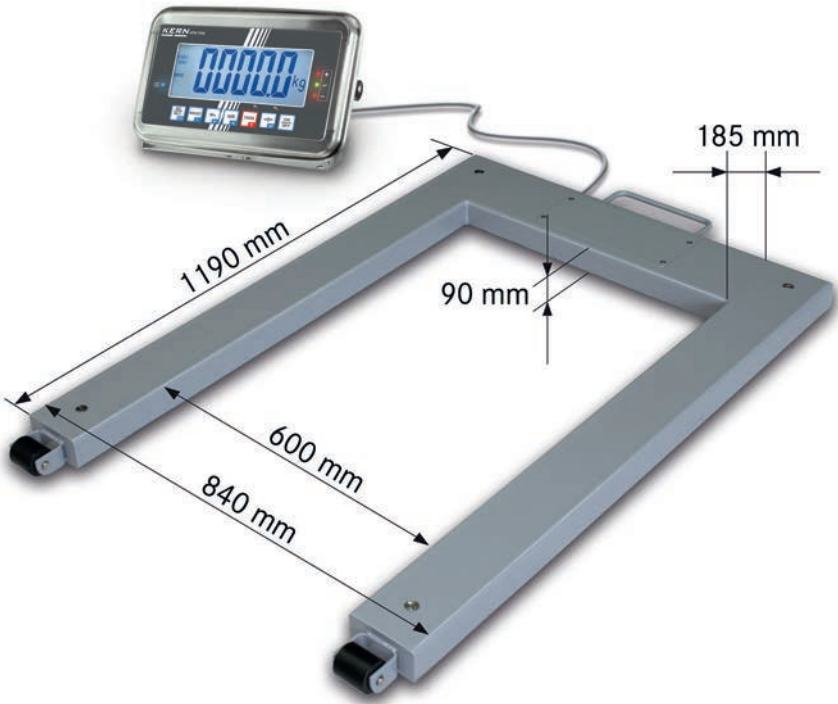


FACTORY



Model	Weighing range [Max] kg	Readout [d] kg	Minimal load [Min] kg	Price excl. of VAT ex works €	Options			
					Verification		DAkkS Calibr. Certificate	
KERN								
					KERN	€	KERN	€
UFB 600K200M	600	0,2	4	930,-	965-230	132,-	963-130	165,-
UFB 1.5T0.5M	1500	0,5	10	930,-	965-230	132,-	963-130	165,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.
Verification at the factory, we need to know the full address of the location of use.



Pallet scale with steel load support (IP67) and stainless steel display device (IP65), with EC type approval [M]

Features

- **High mobility:** thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- **1 Load support:** coated metal, 4 silicone-coated aluminium load cells, 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
- **2 Display device:** for details see KERN KFN-TM
- **Weighing with tolerance range (checkweighing):** A visual and audible signal assists the rapid checking of items on pallets
- **Counting system:** A counting scale can be connected using the data interface, and this can be used to create a high-capacity counting system for counting the very small parts in largest quantities

- **Totalising** of weights and piece counts
- **3 Did you know?** Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN – always one step ahead

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of display device W×D×H 266×165×96 mm
- Cable length of display device approx. 5 m
- Net weight approx. 55 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- **4 Stand** to elevate display device, height of stand approx. 800 mm, KERN BFS-A07, € 120,-
- **Rechargeable battery pack internal,** operating time up to 35 h without backlight, charging time approx. 12 h, KERN GAB-A04, € 40,-

- **Data interface RS-232,** interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KFN-A01, € 95,-
- **5 Signal lamp** for visual support of weighing with tolerance range, KERN CFS-A03, € 250,-
- **6 Large display with superior display size,** KERN YKD-A02, € 220,-
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp or barcode reader and printer, KERN CFS-A04, € 35,-
- **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, € 160,-
- **Suitable printers** see *Accessories*

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

STANDARD

CAL EXT

PCS

SUM

TOL

MOVE

IP 65

IP 67

MULTI

DMS

5 DAYS

2

1

OPTION

DAkKS

+3 DAYS

FACTORY

RS 232

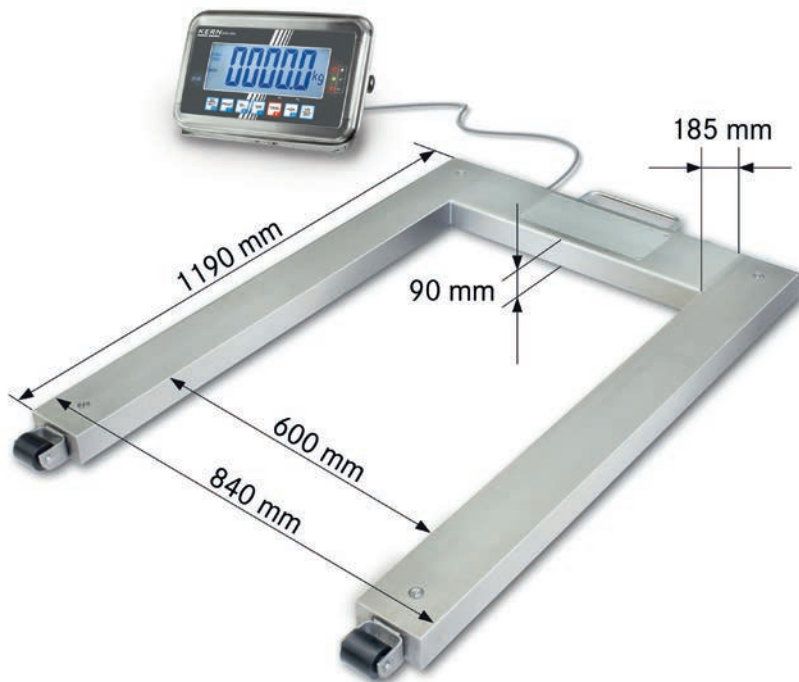
ACCU

+3 DAYS

M

Model	Weighing range	Readout = Verif. value [d] = [e] kg	Minimal load [Min] kg	Price excl. of VAT ex works €	Options			
					Verification		DAkKS Calibr. Certificate	
					KERN	€	KERN	€
KERN	[Max] kg							
UFC 1T-1M	1500	0,5	10	990,-	965-230	132,-	963-130	165,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.



Pallet scale with stainless steel load support (IP67) and stainless steel display device (IP65), with EC type approval [M]

Features

- **High mobility:** thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- **1 Load support:** stainless steel, extremely resistant to bending due to material thickness, 4 silicone-coated stainless steel load cells, protection against dust and water splashes IP67, Weighing bridge can also be delivered as component without the display device, for details see KERN KFU-V30
- Your support in a **HACCP**-compliant quality system
- **Suitable for the ever-increasing hygienic requirements in the food industry**
- **2 Display device:** for details see KERN KFN-TM
- 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 (check-weighing):** A visual and audible signal assists the rapid checking of items on pallets
- **Totalising** of weights
- **3 Did you know?** Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN – always one step ahead

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of display device W×D×H 270×180×96 mm
- Cable length of display device approx. 5 m
- Net weight approx. 55 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- **4 Stand** to elevate display device, height of stand approx. 800 mm, KERN BFN-A04, **€ 285,-**
- **Rechargeable battery pack internal**, operating time up to 35 h without backlight, charging time approx. 10 h, KERN GAB-A04, **€ 40,-**
- **Data interface RS-232**, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KFN-A01, **€ 95,-**
- **5 Large display with superior display size**, KERN YKD-A02, **€ 220,-**
- **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, **€ 160,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

Limited tare range with verifiable models 1/6 from [Max]

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

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Readout = Verif. value [d] = [e] kg	Minimal load [Min] kg	Net weight approx. kg	Price excl. of VAT ex works €	Options			
						Verification KERN	€	DAKKS Calibr. Certificate DKD KERN	€
KERN									
UFN 600K200IPM	600	0,2	4	55	1490,-	965-230	132,-	963-130	165,-
UFN 1.5T0.5IPM	1500	0,5	10	55	1690,-	965-230	132,-	963-130	165,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

Verification at the factory, we need to know the full address of the location of use.

Price reduction



Drive-through scale (IP67) with XXL display device and EC type approval [M]

Features

- **Drive-through scale** 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. No need for pit frame installation - which saves money
- **1 Weighing bridge:** out of anti-slip corrugated steel, 4 silicone-coated steel load cells, dust and spray protection IP67
- **Display device:** for details see KERN KFB-TM
- **Protective working cover** included with delivery
- **2** Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN - always one step ahead

Technical data

- Large backlit LCD display, digit height 52 mm
- Overall dimensions W×D×H
 - A** 1600×1200×110 mm
 - B** 1800×1400×110 mm
- Platform height in the drive-through area: 80 mm
- Dimensions weighing surface
 - A** W×D 1000×1000 mm
 - B** W×D 1200×1200 mm
- Dimensions of display device W×D×H 250×160×65 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 KFB-A02S05, **€ 40,-**
- **3 Stand** to elevate display device, height of stand approx. 800 mm, KERN BFS-A07, **€ 120,-**

- **Pair of base plates** to fix the weighing bridge to the floor, KERN BFS-A06, **€ 70,-**
- **Rechargeable battery pack internal**, operating time up to 35 h without backlight, charging time approx. 10 h, KERN KFB-A01, **€ 35,-**
- **4 Signal lamp** for visual support of weighing with tolerance range, KERN CFS-A03, **€ 250,-**
- **5 Large display with superior display size**, KERN YKD-A02, **€ 220,-**
- **Y-cable** for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp or barcode reader and printer, KERN CFS-A04, **€ 35,-**
- **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, **€ 160,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

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

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

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Readout = Verif. value [d] = [e] kg	Minimal load [Min] kg	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
							Verification		DAkkS Calibr. Certificate	
KERN							M KERN	€	DKD KERN	€
NFB 600K200M	600	0,2	4	130	A	1350,-	965-230	132,-	963-130	165,-
NFB 600K200LM	600	0,2	4	155	B	1550,-	965-230	132,-	963-130	165,-
NFB 1.5T0.5M	1500	0,5	10	130	A	1350,-	965-230	132,-	963-130	165,-
NFB 1.5T0.5LM	1500	0,5	10	155	B	1510,-	965-230	132,-	963-130	165,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

Verification at the factory, we need to know the full address of the location of use.



Stainless steel drive-through scale (IP68), stainless steel display device (IP65), with EC type approval [M]

Features

- **Robust stainless steel drive-through scale** for rapid weighing of e.g. laundry carts, container trolleys, roller containers, etc. Ideal for hospital laundry services, goods inwards, hospital kitchens, etc.
- **Low platform height** and integrated access ramps on both sides facilitate access. No need for pit frame installation - which saves money
- **Ideal for the increased hygienic requirements** in the food, pharmaceutical and chemical industries
- **1 Weighing bridge:** stainless steel, extremely resistant to bending due to material thickness, 4 welded stainless steel load cells, dust and spray protection IP68. Weighing bridge can also be delivered as component without the display device, for details see KERN KFD-V40
- Your support in a **HACCP-compliant** quality system
- **2 Display device:** for details see KERN KFN-TM

- **Totalising** of weights and piece counts
- **3** Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation.
KERN – always one step ahead

Technical data

- Large backlit LCD display, digit height 52 mm
- Overall dimensions W×D×H
A 1600×1200×80 mm
Platform height in the drive-through area: 80 mm
- Dimensions weighing surface W×D
1000×1000 mm
- Dimensions of display device W×D×H
266×165×96 mm
- Cable length of display device approx. 5 m
- Net weight approx. 135 kg
- Permissible ambient temperature
-10 °C/40 °C

Accessories

- **4 Stand** to elevate display device, height of stand approx. 800 mm, KERN BFN-A04, **€ 285,-**
- **Pair of base plates** to fix the weighing bridge to the floor, KERN BFN-A03, **€ 70,-**
- **Rechargeable battery pack internal**, operating time up to 35 h without backlight, charging time approx. 12 h, KERN GAB-A04, **€ 40,-**
- **Data interface RS-232**, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KFN-A01, **€ 95,-**
- **5 Large display with superior display size**, KERN YKD-A02, **€ 220,-**
- **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, **€ 160,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

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

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

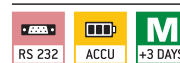
STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Readout = Verification value [d] = [e] kg	Minimal load [Min] kg	Price excl. of VAT ex works €	Options			
					Verification M KERN	€	DAkKS Calibr. Certificate DKD KERN	€
KERN								
NFN 600K-1M	600	0,2	4	2950,-	965-230	132,-	963-130	165,-
NFN 1.5T-4M	1500	0,5	10	2950,-	965-230	132,-	963-130	165,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

Verification at the factory, we need to know the full address of the location of use.

1 ONLY WHILE STOCKS LAST !



” **W**e will produce your ideal scale. Combine KERN display devices with platforms, weighing bridges or load receptors in accordance with your individual requirements. KERN will deliver the complete system to you – with DAkkS calibration certificate or conformity evaluation, if required.

“

Fabian Brenner, Technical Service

Display devices/Platforms/Weighing bridges

Putting together individual weighing systems which cannot be verified

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 put together 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 produce a calibration certificate in accordance with DAkkS/DKD at an additional price, see page 183

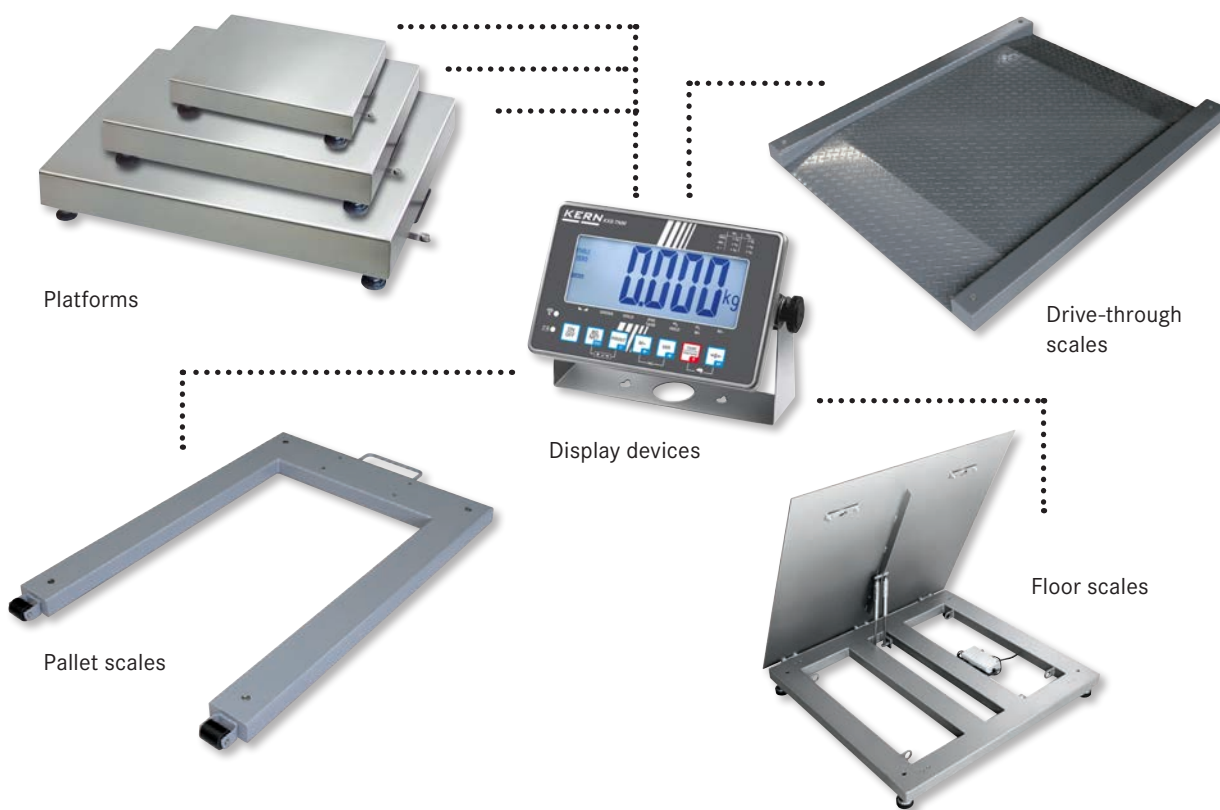
Putting together individual weighing systems which can be verified or are verified

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 build-type approval or OIML test certificate can be combined into a weighing system which can be verified. With KERN these are labelled 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.



Stephan Ade
Product specialist
Display devices/Platforms/Weighing bridges

Tel. +49 [0] 7433 9933-121
Fax +49 [0] 7433 9933-29121
ade@kern-sohn.com

The individual KERN steps:

1. Proof of compatibility This is mandatory by law and includes testing by using build-type approvals, whether the connection values of the display device match the connection data of the weighing unit.	Weighing range	Model	Price excl. of VAT, ex works €
	0 up ... kg	KERN	
	all weighing ranges	965-240	45,-
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	70,-
	up ≤ 350 kg	965-412	100,-
	up ≤ 1500 kg	965-413	120,-
	up ≤ 2900 kg	965-414	150,-
	up ≤ 6000 kg	965-415	250,-
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	55,-
	up ≤ 50 kg	965-228	70,-
	up ≤ 350 kg	965-229	93,-
	up ≤ 1500 kg	965-230	132,-
	up ≤ 2900 kg	965-231	150,-
	up ≤ 6000 kg	965-232	200,-
4. Declaration of conformity KERN issues this after the initial verification by the manufacturer 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
	KERN	excl. of VAT, ex works €
Cable extensions for platform scales with build-type approval		
up to 4 m extension	965-403	45,-
up to 7 m extension	965-404	60,-
up to 10 m extension	965-405	75,-
Cable extensions for platform scales without build-type approval		
up to 4 m extension	920-403	45,-
up to 7 m extension	920-404	60,-
up to 10 m extension	920-405	75,-
Setting an individual preload		
Balance with build-type approval	965-401	50,-
Balance without build-type approval	920-406	60,-
Other adjustments in the balance or software changes	965-407	95,-/h Please require
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	currently not possible	
balances with type approval, no verification	965-406	60,-

Order example

KFP 30V20M platform and KEN-TM display device with cable extension (4 m) and setting an individual preload.

	Model	Price
	KERN	excl. of VAT, ex works €
KERN platform	KFP 30V20M	230,-
KERN display device	KFN-TM	310,-
Proof of compatibility	965-240	45,-
Cable extension	965-403	45,-
Setting the preload	965-401	50,-
Assembly	965-411	70,-
Verification at the factory KERN	965-228	70,-
Complete scale (verified)		820,-



1
KERN KFB-TM

Display device with large digits – easy to read

Note
to see what options are offered by this display device, please see the KERN platform scale IFB on page 95

2
KERN KFS-TM

Professional indicator with 3 displays, also with EC type approval [M]

Note
to see what options are offered by this display device, please see the KERN counting scale IFS on page, Seite 78

STANDARD

CAL EXT

RS 232

GLP

PCS

SUM

UNIT

TOL

STANDARD

MOVE

MULTI

1 DAY

OPTION

ACCU

FACTORY

M

STANDARD

CAL EXT

MEMORY

RS 232

GLP

INTERN

PCS

SUM

PERCENT

STANDARD

UNIT

TOL

MULTI

1 DAY

OPTION

ACCU

FACTORY

M

Features	Model KERN 1 KFB-TM	Model KERN 2 KERN 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 ranges	≤ 2	≤ 2
Weighing units	kg, lb	kg, g
Read-out	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	99 item memories, totalising, printing of date and time
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
Interface RS-485	–	–
Interface USB	–	–
Interface Bluetooth	–	–
Foot switch	–	–
Stand	BFS-A07, see page 95, € 120,-	BFS-A07, see page 78, € 120,-
Benchtop stand for display device/wall mount	yes/yes	yes/yes
Protective working cover	KFB-A02S05, see page 95, € 35,-	KFB-A02S05, see page 78, € 35,-
Rechargeable battery pack	KFB-A01, see page 95, € 35,-	KFS-A01, see page 78, € 35,-
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 €	210,-	210,-



3 KERN KIB-TM

Practical Flip/Flop display device for greatest ease of use

Note

to see what options are offered by this display device, please see the KERN platform scale EOC on page 93



4 KERN KXG-TM**

IP68 display device with integrated power supply

Note

ideal, when you are looking for an affordable display device with the key industrial functions



5 KERN KFT-TM**

KERN **easytouch** display device – the intuitive way to weigh

Note

to see what options are offered by this display device, please see the KERN platform scale IFT on page 102/103

STANDARD									
CAL EXT	RS 232	KCP	GLP	PCS	SUM	A	0%		
		PROTOCOL	PRINTER						
STANDARD									
TOL	MOVE	IP 65	B	DMS	1 DAY				
			MULTI						
OPTION									
									ACCU
FACTORY									
ALIBI	USB	BT 4.0	WLAN	SWITCH	LAN				M

STANDARD									
CAL EXT	GLP	PCS	SUM	UNIT	TOL	MOVE			
	PRINTER								
STANDARD									
IP 68	230 V	1 DAY							
OPTION									
RS 232	RS 485	BT 2.0	WLAN	ACCU					
FACTORY									
									M

STANDARD									
CAL EXT	MEMORY	RS 232	USB	LAN	GLP	PCS			
STANDARD									
RECIPE	0%	UNIT	TOL	MOVE	B	1 DAY			
					MULTI				
OPTION									
ACCU									
FACTORY									
	BT 2.0	WLAN							

Features	Model KERN 3 KIB-TM	Model KERN 4 KXG-TM**	Model KERN 5 KERN KFT-TM**
Display (segments)	7 digits	6 digits	6 digits
EC type approval	*on request	yes	-
Resolution verifiable	3000 e	10000 e	-
Resolution non verifiable	30000 d	30000 d	30.000 d
Weighing ranges	≤ 2	≤ 2	≤ 2
Weighing units	kg, g	kg, g	kg, g
Read-out	1, 2, 5, 10, n	1, 2, 5, 10, 20, 50	1, 2, 5
Piece counting with reference	5, 10, 20, 25, 50, 100	10, 20, 50, 100, 200	10, 20, 50, 100, 200
Display, digit height	Backlit LCD display, 24 mm	Backlit LCD display, 55 mm	Backlit Graphic LCD touch display, 12 mm
Additional functions	Totalising, HOLD function, printing of time. KCP Only possible through RS-232; USB, Bluetooth, WLAN, LAN on request	PRE-TARE function, totalising, HOLD function, peak hold, zero-point memorisation, printing of date and time	8 GB internal memory, 64 MB RAM, Dual-Core processor, password protection, user profiles
Strain gauge load cells	87-1100 Ω	87 - 1600 Ω	80 - 1200 Ω
Linearisation	3 points	2-7 points	2 points
Input voltage	12 V DC, 1000 mA	110-230 V AC	12 V DC, 2500mA
Permissible ambient temperature	-10 °C/40 °C	-10 °C/40 °C	-10 °C/40 °C
Interface RS-232	yes	KXS-A04, € 100,-	-
Interface RS-485	-	KXS-A01, € 145,-	-
Interface USB	KIB-A03, see page 93, € 120,-	-	yes
Interface Bluetooth	KIB-A04, see page 98, € 110,-	KXS-A02, € 170,- (balance ► PC)	-
WLAN	KIB-A10, see page 93, € 120,-	YKI-03, see page 158, € 750,-	YKI-09, see page 102/103, € 95,-
SWITCH (DIGITAL I/O)	KIB-A09, see page 93, € 130,-	-	-
LAN	KIB-A02, see page 93, € 150,-	-	-
Foot switch	-	KXS-A03, € 130,-	-
Stand	EOC-A05, see page 93, € 60,-	YKP-02, € 210,-	-
Benchtop stand for display device/wall mount	EOC-A04, € 30,-	yes/yes	yes/yes
Protective working cover	EOC-A01S05, € 40,-	-	yes/yes
Rechargeable battery pack	KFB-A01, see page 93, € 35,-	GAB-A04, € 40,-	KFB-A01, € 35,-
Operating/charging time	up to 43 h/3 h	up to 80 h/12 h	up to 7 h/12 h
Dimensions Housing W×D×H	268×115×70 mm	232×170×80 mm	252×152×134 mm
Net weight	0,8 kg	2 kg	1 kg
Price excl. of VAT, ex works €	220,-	220,-	650,-

** ONLY WHILE STOCKS LAST



6 KERN KFE-TM

Stainless steel display device with IP65 protection

Note

to see what options are offered by this display device, please see the KERN SFE platform scale on page 97



7 KERN KFN-TM

Stainless steel display device with IP65 protection and superior display size

Note

to see what options are offered by this display device, please see the KERN SFB platform scale on page 65

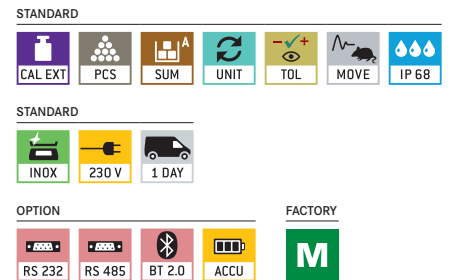
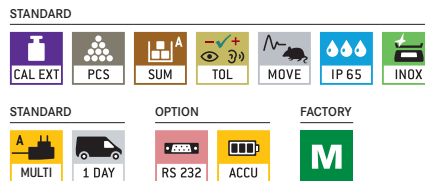
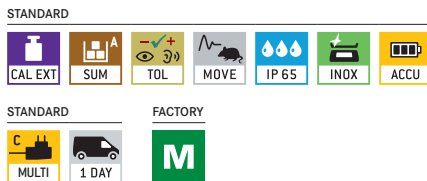


8 KERN KXS-TM

Stainless steel display device with IP68 protection and integrated power supply

Note

to see what options are offered by this display device, please see the KERN SXS platform scale on page 66




Features	Model KERN 6 KFE-TM	Model KERN 7 KFN-TM	Model KERN 8 KXS-TM
Display (segments)	6 digits	5 + 1/2 digits	6 digits
EC type approval	yes	yes	yes
Resolution verifiable	6000 e	6000 e	10000 e
Resolution non verifiable	30000 d	30000 d	30000 d
Weighing ranges	≤ 2	≤ 2	≤ 2
Weighing units	kg	kg	kg, g
Read-out	1, 2, 5, 10, n	1, 2, 5, 10, n	1, 2, 5, 10, 50
Piece counting with reference	-	10, 20, 50, 100, 200	10, 20, 50, 100, 200
Display, digit height	Backlit LCD display, 22 mm	Backlit LCD display, 52 mm	Backlit LCD display, 55 mm
Additional functions	-	Totalising, HOLD function	PRE-Tare function, totalising, HOLD function, peak hold, zero-point memorisation
Strain gauge load cells	87 – 1200 Ω	87 – 1600 Ω	87 – 1600 Ω
Linearisation	2 points	2 points	2–7 points
Input voltage	12 V, 500 mA	12 V, 500 mA	220–240 V AC
Permissible ambient temperature	-10 °C/40 °C	-10 °C/40 °C	-10 °C/40 °C
Interface RS-232	-	KFN-A01, see page 63, € 95,-	KXS-A04, € 100,-
Interface RS-485	-	-	KXS-A01, € 145,-
Interface USB	-	-	-
Interface Bluetooth	-	-	KXS-A02, € 170,- (balance ► PC)
Foot switch	-	-	KXS-A03, € 130,-
Stand	-	BFS-A07, see page 65, € 120,-	YKP-02, € 210,-
Benchtop stand for display device/wall mount	yes/yes	yes/yes	yes/yes
Protective working cover	-	-	-
Rechargeable battery pack	standard	GAB-A04, € 40,-	GAB-A04, € 40,-
Operating/charging time	up to 45 h/12 h	up to 35 h/12 h	bis zu 80 h/12 h
Dimensions Housing W×D×H	195×118×83 mm	266×165×96 mm	232×170×80 mm
Net weight	1 kg	2,6 kg	2,5 kg
Price excl. of VAT, ex works €	250,-	290,-	300,-





1 KERN KFP-V20 IP65

Platform

STANDARD


 IP 65

 1 DAY

 1 DAY

KFP 600

FACTORY


 M


- 1 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

2 KERN KXP-V20 IP65


Platform

STANDARD

 IP 65

 1 DAY

FACTORY

 M

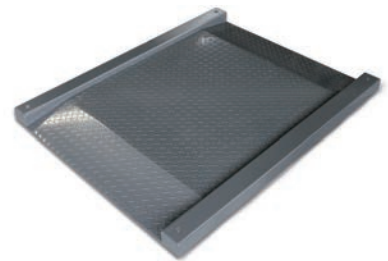
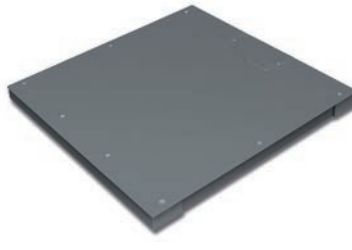
- 2 Stainless steel-weighing plate, B Painted steel base, extremely rigid, wing design
- 1 load cell, aluminium, silicone-coated, IP65, OIML-R60-approved, class III, 3000 e
- Level indicator and levelling feet for precise levelling of the scale



Model	Weighing range [Max] kg	Readout [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 €
1 Plattform KFP-V20 IP65								
KFP 3V20M	3	0,1	1	20	2,5	3,6	230×230×110	160,-
KFP 6V20M	6	2	1 2	40	2	3,6	230×230×110	170,-
KFP 6V20LM	6	0,2	1 2	40	2,5	6	300×240×110	190,-
KFP 15V20M	15	0,5	2 5	100	2	6	300×240×110	190,-
KFP 15V20LM	15	0,5	2 5	100	2,5	10	400×300×128	230,-
KFP 30V20SM	30	10	10	200	2,5	6	300×240×110	195,-
KFP 30V20M	30	1	5 10	200	2	10	400×300×128	230,-
KFP 60V20M	60	2	10 20	400	2	10	400×300×128	230,-
KFP 60V20LM	60	2	10 20	400	2	10	500×400×137	290,-
KFP 150V20M	150	5	20 50	1000	2	10	500×400×137	290,-
KFP 150V20LM	150	5	20 50	1000	2	22	650×500×135	510,-
KFP 300V20M	300	10	50 100	2000	2	22	650×500×135	510,-
KFP 600V20AM	600	200	200	4000	2,5	46	800×600×150	770,-
2 Plattform KXP-V20 IP65								
KXP 15V20M	15	0,5	2 5	100	3	3,2	300×240×90	230,-
KXP 6V20LM	6	0,2	1 2	40	3	3,2	300×240×90	220,-
KXP 15V20LM	15	5	5	100	3	8	400×300×90	320,-
KXP 30V20M	30	1	5 10	200	3	8	400×300×89	320,-
KXP 30V20LM	30	1	5 10	200	3	18	500×400×123	450,-
KXP 60V20M	60	2	10 20	400	3	11	400×300×89	330,-
KXP 60V20LM	60	2	10 20	400	3	22	500×400×123	460,-
KXP 150V20M	150	5	20 50	1000	3	18	500×400×123	450,-
KXP 150V20LM	150	5	20 50	1000	3	34	650×500×133,5	540,-
KXP 300V20M	300	10	50 100	2000	3	34	650×500×133,5	540,-



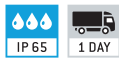
NEW



1 KERN KIP-V20M

Weighing bridge

STANDARD

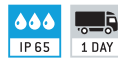


- Weighing bridge with non-slip chequer plate, lacquered
- 4 Load cells, steel, silicone-coated, IP67, OIML-R60-approval for verification, class III, 3000 e
- Can be built in using pit frames (optional)
- Level indicator and levelling feet for precise levelling of the scale
- Easy access to the junction box from the top
- Comfortable levelling of the weighing bridge from the top
- Accessories page 108/109 (KERN BID)

2 KERN KFP-V20 IP67

Weighing bridge

STANDARD



FACTORY



- **A** 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
- Accessories page 110/111 (KERN BFB)

3 KERN KFD-V20

Weighing bridge

STANDARD



FACTORY



- 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-approval for verification, class III, 3000 e
- Accessories page 123 (KERN NFB)

A



Model	Weighing range [Max] kg	Readout [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 €
1 Weighing bridge KIP-V20M								
KIP 600V20SM	600	200	200	4000	5	130	1000×1000×108	900,-
KIP 600V20M	600	200	200	4000	5	150	1500×1200×108	1150,-
KIP 1500V20SM	1500	500	500	10000	5	130	1000×1000×108	950,-
KIP 1500V20EM	1500	500	500	10000	5	140	1250×1000×108	1050,-
KIP 1500V20M	1500	500	500	10000	5	150	1500×1250×108	1250,-
KIP 3000V20M	3000	1000	1000	20000	5	150	1500×1250×108	1250,-
KIP 3000V20LM	3000	1000	1000	20000	5	180	1500×1500×108	1400,-
2 Weighing bridge KFP-V20 IP67								
KFP 600V20SNM	600	200	200	4000	5	105	1000×1000×80	990,-
KFP 600V20NM	600	200	200	4000	5	135	1500×1250×80	1450,-
KFP 1500V20SNM	1500	500	500	10000	5	105	1000×1000×80	1010,-
KFP 1500V20NM	1500	500	500	10000	5	135	1500×1250×80	1450,-
KFP 3000V20NM	3000	1000	1000	20000	5	135	1500×1250×80	1460,-
KFP 3000V20LM	3000	1000	1000	20000	5	155	1500×1500×80	1600,-
KFP 6000V20M	6000	2000	2000	40000	5	210	1500×1500×130	1950,-
3 Weighing bridge KFD-V20								
KFD 600V20M	600	200	200	4000	5	125	1600×1200×78	1410,-
KFD 600V20LM	600	200	200	4000	5	155	1400×1800×80	1580,-
KFD 1500V20M	1500	500	500	10000	5	125	1600×1200×78	1350,-
KFD 1500V20LM	1500	500	500	10000	5	175	1800×1400×78	1580,-

New model Price reduction

**4 KERN KFA-V20**

Weighing beams

STANDARD



- **4 Weighing beams and painted steel base**
- **4 load cells, alloy steel, silicone-coated, IP67**
- **Levelling feet** for precise levelling of the weighing beams
- **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)
- **NEW:** new model with short weighing beams, ideal for weighing compact items or animals in transport boxes
 - KERN KFA-600V20S
- Accessories page 118 (KERN UFA)

**5 KERN KFU-V20/V30**

U-Weighing bridge

STANDARD



KFU-V30

FACTORY



- **5 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
- Accessories KFU-V20 page 120 (KERN UFB)
- Accessories KFU-V30 page 122 (KERN UFN)

**6 KERN KFP-V30**

Platform

STANDARD



FACTORY



- **6 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



D

Note

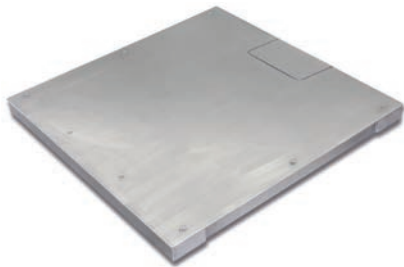
For additional models with 4 encapsulated stainless steel load cells (IP68) see the website, KERN UFN-BM



E

Model	Weighing range [Max] kg	Readout [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 €
4 Weighing beams KFA-V20								
KFA 600V20S	600	200	-	-	5	30	800×120×100	890,-
KFA 1500V20	1500	500	-	-	5	36	1200×120×100	910,-
KFA 3000V20	3000	1000	-	-	5	36	1200×120×100	910,-
KFA 3000V20L	3000	1000	-	-	5	65	2000×120×100	1150,-
KFA 6000V20L	6000	2000	-	-	5	125	2100×160×85	1550,-
KFA 6000V20	6000	2000	-	-	5	85	1200×160×80	1220,-
5 U-Weighing bridge KFU-V20								
KFU 600V20M	600	200	200	4000	5	55	840×1300×90	750,-
KFU 1500V20M	1500	500	500	10000	5	55	840×1300×90	850,-
5 Stainless steel U-Weighing bridge KFU-V30								
KFU 600V30M	600	200	200	4000	2,5	55	840×1300×90	1750,-
KFU 1500V30M	1500	500	500	10000	2,5	55	840×1300×90	1750,-
6 Stainless steel platform KFP-V30								
KFP 15V30M	15	0,5	5	100	2,5	5,0	300×240×100	480,-
KFP 30V30M	30	1	10	200	2,5	10	400×300×128	540,-
KFP 30V30SM	30	10	10	200	2,5	5,0	300×240×100	490,-
KFP 60V30LM	60	2	20	400	2,5	10	500×400×137	650,-
KFP 60V30M	60	2	20	400	2,5	10	400×300×128	550,-
KFP 60V30XLM	60	2	20	400	2,5	22	650×500×142	990,-
KFP 150V30SM	150	5	50	1000	2,5	10	400×300×128	540,-
KFP 150V30M	150	5	50	1000	2,5	10	500×400×137	660,-
KFP 150V30LM	150	5	50	1000	2,5	22	650×500×135	990,-
KFP 300V30M	300	10	100	2000	2,5	22	650×500×135	990,-

↓ Price reduction


7 KERN KFP-V40

Weighing bridge



- **7 Weighing bridge entirely made of stainless steel**, extremely resistant to bending because of its high material thickness
- **F** Weighing plate fixed with stainless steel screws, for easier access to the loadcells from above
- **4 load cells, stainless steel, encapsulated, IP68, OIML-R60-approved**, class III, 3000 e
- Can be built in using pit frames (optional)
- **Level indicator and levelling feet** for precise levelling of the scale
- **Comfortable levelling of the weighing bridge** from the top
- Accessories page 115 (KERN BFN)


8 KERN KFD-V40

Weighing bridge



- **8 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 precise levelling of the scale
- Accessories page 124 (KERN NFN)

Note We will be happy to create custom products for you, such as, for example weighing plates with holes and hooks in place of handles, other weighing plate sizes, other materials (steel grades) and much more.


9 KERN KKP-V40

Weighing bridge



- **9 Weighing bridge made entirely of stainless steel**, extremely resistant to bending because of its high material thickness
- **G** To clean or service the floor scale, the weighing plate can be flipped up easily using two retractable handles, without damaging your back
- **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 precise levelling of the scale
- **Comfortable levelling of the weighing bridge** from the top
- Accessories page 116/117 (KERN BKN)



Model	Weighing range [Max] kg	Readout [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 Stainless steel weighing bridge KFP-V40								
KFP 600V40SM	600	200	200	4000	5	95	1000×1000×80	2610,-
KFP 1500V40M	1500	500	500	10000	5	135	1500×1250×80	3330,-
KFP 1500V40SM	1500	500	500	10000	5	95	1000×1000×80	2690,-
KFP 3000V40M	3000	1000	1000	20000	5	135	1500×1250×80	3350,-
8 Stainless steel weighing bridge KFD-V40								
KFD 600V40M	600	200	200	4000	5	130	1600×1200×78	2950,-
KFD 1500V40M	1500	500	500	10000	5	130	1600×1200×78	2930,-
9 Stainless steel weighing bridge KKP-V40								
KKP 600V40M	600	200	200	4000	5	125	1500×1250×110	3900,-
KKP 600V40SM	600	200	200	4000	5	95	1000×1000×110	3200,-
KKP 1500V40M	1500	500	500	10000	5	125	1500×1250×110	3900,-
KKP 1500V40SM	1500	500	500	10000	5	95	1000×1000×110	3200,-
KKP 3000V40LM	3000	1000	1000	20000	5	150	1500×1500×110	5400,-
KKP 3000V40M	3000	1000	1000	20000	5	125	1500×1250×110	3900,-

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 offers a carefully coordinated range from the affordable entry level model to the comfort model with printer and removable battery pack.

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 (DKD) (optional). This ensures the high level of accuracy of your pallet truck scale.

Quick-Finder Pallet truck scales

Read-out [d] kg	Weighing range [Max] kg	Model	Price excl. of VAT ex works €	Page	 DAYS	 CAL EXT	 SUM	 IP	 BATT	 ACCU
		KERN			For an explanation on the pictos, see the front flap					
1	2000	VFB 2T-3	1430,-	137	2	●	●	●		●
1	2000	VHB 2T1	1350,-	138	2	●	●	●	●	
5	2000	VHE 2T5A	990,-	136	2	●		●	●	

● = Standard ○ = Option

**HIGH-
LIGHT**

only €

990,-

page 136



- The power pack in the dispatch department and the warehouse
- The display device is well-protected by a metal frame
- Optimised load rollers so that you can get over rough ground more easily and greater manoeuvrability

Fabienne Kolbus
Product specialist
Pallet truck scales

Tel. +49 [0] 7433 9933-305
Fax +49 [0] 7433 9933-29305
fabienne.kolbus@kern-sohn.com



KERN VHE-A



Entry-level model into mobile weighing

Features

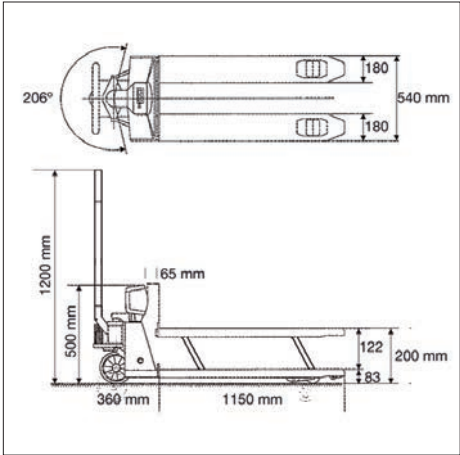
- **Highly versatile for general checkweighing**, e.g. plausibility check at goods receiving, determining shipping weights, avoiding overloads, safety checks
- **Very manoeuvrable** thanks to its compact construction and low weight
- **Particularly robust** with its components having been relocated from the load fork into the protected housing area. It is therefore also ideal for heavy applications in the production area and on board lorries
- **Display device:** plastic, protection against dust and water splashes IP65
- **Low height of the loading forks** easy uplifting to work with low pallets
- **Pivot range 206°**
- **Castors:** Solid rubber on aluminium rims
- **Load rollers:** Polyurethane

Operation:

- 1 Switch on and then pump up the load fork to the reference height
 - 2 Tare off
 - 3 Release the load fork and load the goods to be weighed
 - 4 Weighing: Pump the load fork with the goods to be weighed up to the reference height, read off the weight
- **Ready for use:** Batteries included, 2×1.5 V AA, operating time up to 100 h, AUTO-OFF function to preserve the battery

Technical data

- Large LCD display, digit height 18 mm
- Permissible ambient temperature -10 °C/40 °C



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

STANDARD

CAL EXT

IP 65

BATT

DMS

2 DAYS

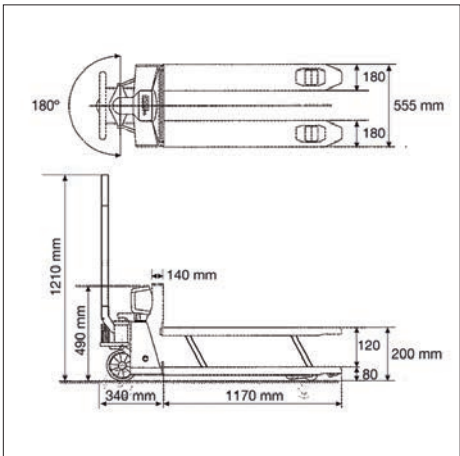
OPTION

DAkkS

+3 DAYS

Model	Weighing range	Readout	Net weight	Price excl. of VAT ex works €	Option	
					DAkkS Calibr. Certificate	
KERN	[Max] kg	[d] kg	approx. kg		DKD KERN	€
VHE 2T5A	2000	5	65	990,-	963-131	220,-

Price reduction



Pallet truck scale with totalising function for weights and integrated rechargeable battery pack

Features

- **PRE-TARE function** for manual deduction of a known container weight (e.g. pallet, mesh crate etc.)
- **1 Load fork:** Protection against dust and water splashes IP67, temporary use in wet areas possible
- **Pivot range 180°**
- **Castors:** Solid rubber on aluminium rims
- **3 Load rollers:** Tandem tyres to overcome thresholds and obstacles more easily
- **Check the weighing range which is in use** at the press of a button (net/gross weight)
- **Totalising** of weights
- Rechargeable battery pack internal, operating time up to 40 h without backlight, charging time approx. 12 h

Technical data

- **2 Backlit LCD display**, digit height 22 mm
- Permissible ambient temperature -10 °C/40 °C

Accessories

- **Protective working cover** over the display device, scope of delivery: 5 items, KERN VFB-A01S05, **€ 40,-**

Note: As standard, the unit is dispatched without the sha and display fitted. The sha and display can be fitted at our factory for an additional cost, delivery + 2 working days, KERN VFS-M01, **€ 150,-** Please state when ordering.

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

STANDARD

CAL EXT

SUM

IP 67

ACCU

MULTI

DMS

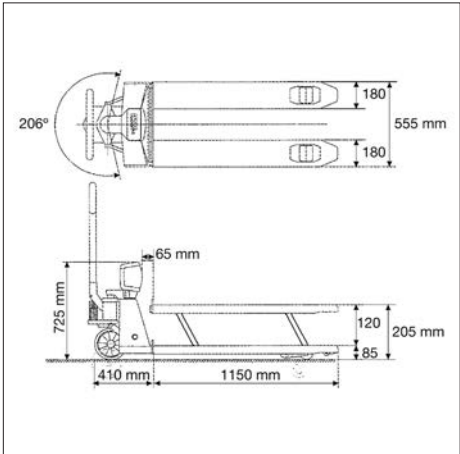
2 DAYS

OPTION

DAKKS +3 DAYS

only with VFS-M01

Model	Weighing range	Readout	Net weight	Price excl. of VAT ex works €	Option	
					DAKKS Calibr. Certificate	
KERN	[Max] kg	[d] kg	approx. kg		DKD KERN	€
VFB 2T-3	2000	1	110	1430,-	963-131	220,-



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, protection 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
- **Totalising** of weights
- **Ready for use:** Batteries included, 4x1.5 V AA, operating time up to 80 h

Technical data

- Large LCD display, digit height 28 mm
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Castors made of red 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 ranges KERN VHB, KERN VHS (when retrofitting, please give the serial number of the pallet truck scale available when ordering), scope of delivery: 1 item, KERN VHB-A02, € 160,-

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

STANDARD



OPTION



Model	Weighing range	Readout	Net weight	Price excl. of VAT ex works €	Option	
					DAkkS Calibr. Certificate	
KERN	[Max] kg	[d] kg	approx. kg		DKD KERN	€
VHB 2T1	2000	1	110	1350,-	963-131	220,-

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).

New in the KERN crane scale range: Compact crane scales/load receptors/tensile dynamometers – KERN HFA and HFC.

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 balances are practical in maintenance and wear free.

Note

DAkkS calibration (DKD) 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. You can find all the important details on pages 191, 196 or directly from one of our test service specialists, we will be pleased to help you.



- For loads up to 12 tons
- Solid version
- TÜV-tested safety

Lisa Mayer










Product specialist
Hanging scales/Crane scales

Tel. +49 [0] 7433 9933-219
Fax +49 [0] 7433 9933-29219
lisa.mayer@kern-sohn.com



KERN HFD

Quick-Finder Hanging scales/Crane scales

Read-out [d] kg	Weighing range [Max] kg	Model	Price excl. of VAT ex works €	Page									
					For an explanation on the pictos, see the front flap								
0,005	5	HDB 5K5N	60,-	141	1		●		●			●	
0,005	6	HDB 6K-3XL	78,-	141	1								
0,01	10	HDB 10K10N	60,-	141	1		●		●			●	
0,01	15	HDB 10K-2XL	78,-	141	1								
0,01	20	HCB 20K10	105,-	142	1		●		●			●	
0,02	15	CH 15K20	71,-	141	1		●		●			●	
0,02	30	HDB 30K-2XL	78,-	141	1								
0,02	50	HCB 50K20	115,-	142	1		●		●			●	
0,05	50	CH 50K50	76,-	141	1		●		●			●	
0,05	99	HCB 99K50	100,-	142	1		●		●			●	
0,05	150	HFB 150K50	355,-	145	1		●						●
0,1	50	CH 50K100	66,-	141	1		●		●			●	
0,1	50	HCB 50K100	90,-	142	1		●		●			●	
0,1	50	HCN 50K100IP	130,-	142	1		●		●	●	●	●	
0,1	200	HCB 200K100	130,-	142	1		●		●			●	
0,1	300	HFB 300K100	385,-	145	1		●						●
0,1	1000	HFM 1T0.1	720,-	147	1		●						●
0,1 0,2	300 600	HFD 600K-1	370,-	146	1		●			●			●
0,1 0,2 0,5	300 600 1500	HFD 1T-4	390,-	146	1		●			●			●
0,2	100	HCB 100K200	110,-	142	1		●		●			●	
0,2	100	HCN 100K200IP	130,-	142	1		●		●	●	●	●	
0,2	600	HFA 600K-1	590,-	143	1		●					●	●
0,2	600	HFC 600K-1	990,-	144	1		●					●	●
0,2	600	HFB 600K200	385,-	145	1		●						●
0,2 0,5 1	600 1500 3000	HFD 3T-3	620,-	146	1		●			●			●
0,5	200	HCB 200K500	99,-	142	1		●		●			●	
0,5	200	HCN 200K500IP	130,-	142	1		●		●	●	●	●	
0,5	1000	HFA 1T-4	690,-	143	1		●					●	●
0,5	1000	HFC 1T-4	990,-	144	1		●					●	●
0,5	1500	HFO 1.5T0.5M	1050,-	147	1	○	●						●
0,5	1500	HTS 1T-4AM	1190,-	148	1	○	●						●
0,5	3000	HFM 3T0.5	750,-	147	1		●						●
0,5	3000	HFT 3T0.5	1270,-	149	1		●	●					●
0,5	5000	HFM 5T0.5	970,-	147	1		●						●
0,5 1 2	1500 3000 6000	HFD 6T-3	650,-	146	1		●			●			●
1	500	HCB 0.5T-3	215,-	142	1		●		●			●	
1	3000	HFA 3T-3	750,-	143	1		●					●	●
1	3000	HFC 3T-3	1050,-	144	1		●					●	●
1	3000	HFO 3T1M	1180,-	147	1	○	●						●
1	3000	HTS 3T-3AM	1250,-	148	1	○	●						●
1	5000	HFT 5T1	1510,-	149	1		●	●					●
1	10000	HFM 10T1	1330,-	147	1		●						●
1 2 5	3000 6000 12000	HFD 10T-3	790,-	146	1		●			●			●
2	1000	HCB 1T-3	275,-	142	1		●		●			●	
2	5000	HFA 5T-3	790,-	143	1		●					●	●
2	5000	HFC 5T-3	1090,-	144	1		●					●	●
2	6000	HFO 6T2M	1470,-	147	1	○	●						●
2	6000	HTS 6T-3AM	1320,-	148	1	○	●						●
2	10000	HFT 10T2	1880,-	149	2		●	●					●
5	10000	HFA 10T-3	1050,-	143	1		●					●	●
5	10000	HFC 10T-3	1370,-	144	1		●					●	●
5	10000	HTS 10T-3AM	1460,-	148	1	○	●						●
5	15000	HFT 15T5	2650,-	149	2		●	●					●

News 2018

● = Standard ○ = Option

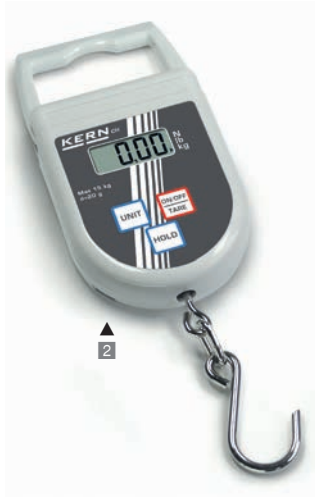
NEW



KERN HDB-N



KERN HDB-XL



KERN CH



Convenient, economical and always handy –
NEW: KERN HDB now also as high-capacity XL-version

Features

- **NEW: KERN HDB now also as high-capacity XL-version.** The larger design creates space for a large handle, which enables even better handling especially with heavier loads
- **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, steel**, can be hinged (HDB-N, HDB-XL)

Technical data

HDB-N/HDB-XL

- LCD display, digit height 12 mm
- Ready for use: Batteries included, 2×1.5 V AAA, operating time up to 180 h
- Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

CH

- 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
- Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

Accessories

- **3** **Tare pan with pan beam**, details see Accessories, KERN CH-A01N, € 70,-

STANDARD						OPTION	
CAL EXT	UNIT	MOVE	BATT	DMS	1 DAY	DAKKS	+3 DAYS

Model	Weighing range	Readout	Dimensions housing W×D×H mm	Net weight ca. kg	Price excl. of VAT ex works €	Option	
						DAKKS Calibr. Certificate	
KERN	[Max] kg	[d] g				DKD KERN	€
HDB 5K5N	5	5	70×25×105	0,2	60,-	963-127H	72,-
HDB 10K10N	10	10	70×25×105	0,2	60,-	963-128H	88,-
HDB 30K-2XL	30	20	107×25×101	0,2	78,-	963-128H	88,-
HDB 10K-2XL	15	10	107×25×101	0,2	78,-	963-128H	88,-
HDB 6K-3XL	6	5	107×25×101	0,2	78,-	963-128H	88,-
CH 15K20	15	20	90×30×176,5	0,35	71,-	963-128H	88,-
CH 50K50	50	50	90×30×176,5	0,35	76,-	963-128H	88,-
CH 50K100	50	100	90×30×176,5	0,35	66,-	963-128H	88,-

New model



The handy scales for higher loads up to 1 t

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

Technical data

- LCD display, digit height 12 mm
- Hole diameter of load support, model with [Max] ≤ 200 kg: approx. 14 mm
[Max] > 200 kg: approx. 16 mm

HCB

- Ready for use: Batteries included, 3×1.5 V AA, operating time up to 300 h
- **2** [Max] ≥ 0,5 t: Reinforced version for heavy loads. Snap link and Hook not included

HCN

- Housing stainless steel, protected against dust and water splashes IP65
- **3** Second display on the rear of the balance
- Ready for use: Batteries included, 2×1.5 V AA, operating time up to 200 h



Accessories

for models with [Max] ≤ 20 kg

- **Tare pan with pan beam**, details see Accessories, KERN CH-A01N, **€ 70,-**

for models with [Max] ≥ 100 kg

- **4** **Hook with safety catch**, cast steel, galvanised and lacquered, revolving. Scope of delivery: 2 shackles, 1 lacquered screw bolt, 1 hook, KERN YHA-06, **€ 125,-**

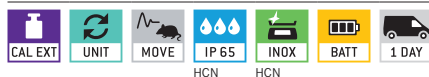
for models with [Max] ≤ 200 kg

- **Snap link (stainless steel) with safety catch**, standard, opening approx. 15 mm. Can be reordered, KERN HCB-A01, **€ 33,-**
- **Hook (stainless steel)**, standard, opening approx. 25 mm. Can be reordered, KERN HCB-A02, **€ 30,-**

for models with [Max] ≥ 0,5 t

- **5** **High-strength shackle**, hot-dipped galvanised cast steel bracket, bow shaped. Scope of delivery: 2 shackles with lacquered screw bolts, suitable for models KERN HCB with [Max] ≥ 0,5 t, KERN YSC-03, **€ 50,-**

STANDARD



OPTION



Model	Weighing range [Max] kg	Readout [d] g	Dimensions housing W×D×H mm	Net weight approx. kg	Price excl. of VAT ex works €	Option DAKKS Calibr. Certificate	
						DKD KERN	€
KERN							
HCB 20K10	20	10	80×45×150	0,6	105,-	963-128H	88,-
HCB 50K20	50	20	80×45×150	0,6	115,-	963-128H	88,-
HCB 50K100	50	100	80×45×150	0,6	90,-	963-128H	88,-
HCB 99K50	99	50	80×45×150	0,6	100,-	963-129H	105,-
HCB 100K200	100	200	80×45×150	0,35	110,-	963-129H	105,-
HCB 200K100	200	100	80×45×150	0,6	130,-	963-129H	105,-
HCB 200K500	200	500	80×45×150	0,6	99,-	963-129H	105,-
HCB 0.5T-3	500	1000	80×42×152	0,35	215,-	963-130H	165,-
HCB 1T-3	1000	2000	80×48×150	0,55	275,-	963-130H	165,-
Stainless steel							
HCN							
HCN 50K100IP	50	100	95×50×180	0,8	130,-	963-128H	88,-
HCN 100K200IP	100	200	95×50×180	0,8	130,-	963-129H	105,-
HCN 200K500IP	200	500	95×50×180	0,8	130,-	963-129H	105,-



Compact crane scale with integrated display can also be used for tensile force measurement

Features

- **1** With the **TÜV certification mark**, the scale meets 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, on building sites, in freight centres, ports etc.
- 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” in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key

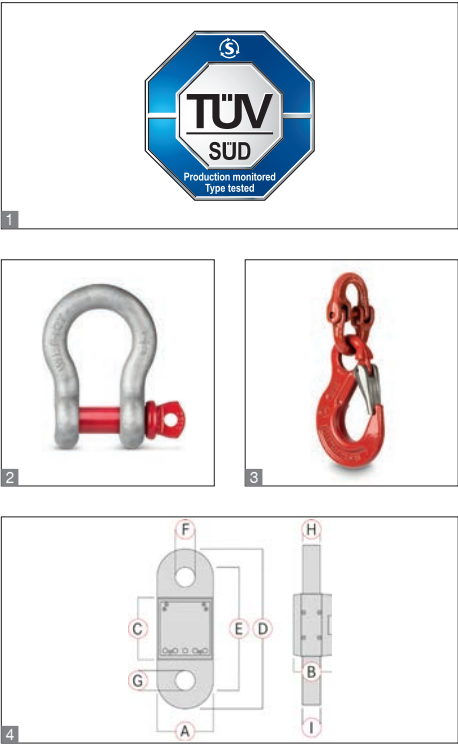
- **Tare:** Resets the display to “0” when there is a load on the scale. Now removed or added loads are directly displayed

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 bearing [Max] > 3 t: steel/steel
- Rechargeable battery pack internal, operating time up to 30 h without backlight, charging time approx. 12 h
- Optional battery operation, 3×1.5 V AA not included, operating time up to 40 h
- Precision: 0,2 % of [Max]
- Measuring frequency 60 Hz
- Further 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, **€ 100,-** [Max] > 5 t: KERN YSC-02, **€ 210,-**
- **3 Hook with safety catch**, cast steel, galvanised and lacquered, non-revolving. Scope of delivery: 2 shackles, 1 lacquered screw bolt, 1 hook, suitable for models with [Max] ≤ 1 t: KERN YHA-01, **€ 170,-** [Max] = 3 t: KERN YHA-02, **€ 190,-** [Max] = 5 t: KERN YHA-03, **€ 230,-** [Max] > 5 t: KERN YHA-04, **€ 410,-**



STANDARD

CAL EXT

UNIT

BATT

ACCU

MULTI

DMS

1 DAY

OPTION

DAKKS

+3 DAYS

Model	Weighing range [Max] kg	Readout [d] g	Net weight kg	4 Dimensions							Price excl. of VAT ex works €	Option	
												DAkkS Calibr. Certificate	
				A mm	B mm	C mm	D mm	E mm	F=G mm	H=I mm		DKD KERN	€
KERN													
HFA 600K-1	600	200	1,8	90	55	100	255	165	27	30	590,-	963-130H	165,-
HFA 1T-4	1000	500	1,8	90	55	100	255	165	27	30	690,-	963-130H	165,-
HFA 3T-3	3000	1000	2	90	61	100	255	165	27	30	750,-	963-132H	500,-
HFA 5T-3	5000	2000	4	90	61	100	255	165	30	30	790,-	963-132H	500,-
HFA 10T-3	10000	5000	6	90	71	100	275	185	40	40	1050,-	963-133H	700,-



3

Compact crane scale for use in harsh environmental conditions or where space is limited, with convenient hand-held terminal

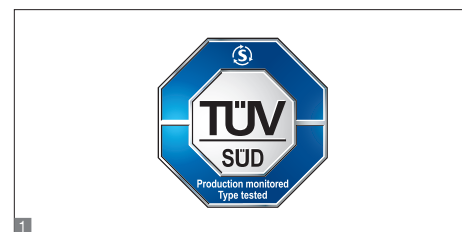
Features

- **1** With the **TÜV certification mark**, the scale meets 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, on building sites, in freight centres, ports etc.
- 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:** When the weighing value remains unchanged the weight indicated on the display is automatically "frozen" until the Hold key is pressed
- **Tare:** Resets the display to "0" when there is a load on the scale. Now removed or added loads are directly displayed

- **2** **Display device with integrated radio module**, which the user can carry around with him, thanks to the convenient hand strap **3**, 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 100 m, LCD display, digit height 23 mm, rechargeable battery pack internal, standard. Operating time up to 30 h without backlight, charging time approx. 12 h. Can be reordered, KERN HFC-A01, **€ 60,-**
- Dimensions housing (display device) B×T×H 88×64×256 mm
- Net weight approx. 0,5 kg

Technical data

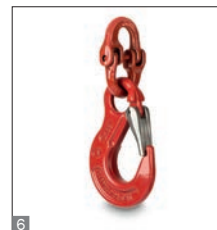
- Large backlit LCD display, digit height 23 mm
- Material and design of housing/load support, models with
[Max] ≤ 3 t: aluminium/stainless steel bearing
[Max] > 3 t: steel/steel



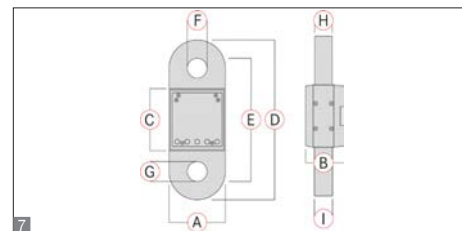
1



5



6



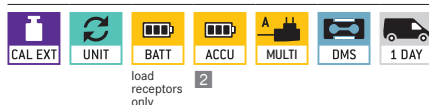
7

- Optional battery operation, 3×1.5 V AA not included, operating time up to 40 h
- Precision: 0,2% of [Max]
- Measuring frequency 60 Hz
- Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

Accessories

- **4** **Rechargeable battery pack internal** for load support, operating time up to 30 h, without backlight, charging time approx. 12 h, KERN HFA-A01, **€ 40,-**
- **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] ≤ 5t: KERN YSC-01, **€ 100,-**
[Max] > 5t: KERN YSC-02, **€ 210,-**
- **6** **Hook with safety catch**, cast steel, galvanised and lacquered, non-revolving. Scope of delivery: 2 shackles, 1 lacquered screw bolt, 1 hook, suitable for models with
[Max] ≤ 1t: KERN YHA-01, **€ 170,-**
[Max] = 3t: KERN YHA-02, **€ 190,-**
[Max] = 5t: KERN YHA-03, **€ 230,-**
[Max] > 5t: KERN YHA-04, **€ 410,-**

STANDARD



load receptors only

OPTION



4

Model	Weighing range [Max] kg	Readout [d] g	Net weight approx. kg	7 Dimensions							Price excl. of VAT ex works €	Option DAkKS Calibr. Certificate	
				A	B	C	D	E	F=G	H=I		DKD KERN	€
				mm	mm	mm	mm	mm	mm	mm			
KERN													
HFC 600K-1	600	200	1,8	90	55	100	255	165	27	30	990,-	963-130H	165,-
HFC 1T-4	1000	500	1,8	90	55	100	255	165	27	30	990,-	963-130H	165,-
HFC 3T-3	3000	1000	2,2	90	61	100	255	165	27	30	1050,-	963-132H	500,-
HFC 5T-3	5000	2000	4	90	61	100	255	165	30	30	1090,-	963-132H	500,-
HFC 10T-3	10000	5000	6	90	71	100	275	185	40	40	1370,-	963-133H	700,-



The professional alternative up to 600 kg with rear-facing second display

Features

- **1** With the **TÜV certification mark**, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/Breakage resistance) and EN 61010-1 (Electrical safety)
- **Second display** on the rear of the balance
- **High mobility:** thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)

- **Hold function:** When the weighing value remains unchanged the weight indicated on the display is automatically “frozen” until the Hold key is pressed
- **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
- Shackle and safety catch made of nickel-plated steel
- **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, 2 × 1,5 V AAA

Technical data

- Superior display size: digit height 25 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- Dimensions housing W×D×H 162×123×158,5 mm
- Rechargeable battery pack internal, operating time up to 40 h without backlight, charging time approx. 14 h
- Precision: 0,2 % of [Max]
- Permissible ambient temperature 0 °C/40 °C

STANDARD

CAL EXT

UNIT

ACCU

MULTI

DMS

1 DAY

OPTION

DAKKS

+3 DAYS

Model	Weighing range [Max] kg	Readout [d] g	Net weight approx. kg	4 Dimensions							Price excl. of VAT ex works €	Option	
				A	B	C	D	E	F	G		DAKKS Calibr. Certificate	
KERN				mm	mm	mm	mm	mm	mm	mm		DKD KERN	€
HFB 150K50	150	50	2,2	163	126	158,5	390	358	26	25	355,-	963-129H	105,-
HFB 300K100	300	100	2,2	163	126	158,5	390	358	26	25	385,-	963-129H	105,-
HFB 600K200	600	200	2,4	163	126	158,5	390	358	26	25	385,-	963-130H	165,-



NEW



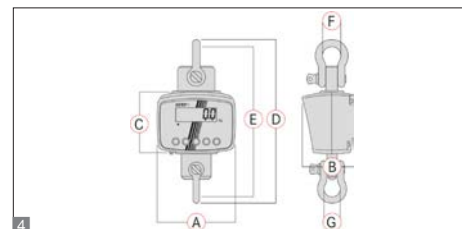
1



2



3



4

Robust high-resolution crane scale up to 12 t

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)
- **Because of its stable construction and robust design**, it is ideal for continuous use in industrial environment
- **High mobility**: thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- **Hold function**: When the weighing value remains unchanged the weight indicated on the display is automatically "frozen" until the Hold key is pressed

- **Tare**: Resets the display to "0" when there is a load on the scale. Now removed or added loads are directly displayed
- **Solid shackles**, non-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, 2 × 1,5 V AAA

Technical data

- Superior display size: digit height 30 mm, bright backlight for easy reading of weight, even under poor lighting conditions
- Rechargeable battery pack internal, standard, operating time up to 80 h without backlight, charging time approx. 12 h
- Precision: 0,2 % von [Max]
- Permissible ambient temperature -10 °C/40 °C

Accessories

- **Rechargeable battery pack internal** for load support, operating time up to 80 h, without backlight, charging time approx. 12 h, KERN HFD-A04, **€ 65,-**
- **External universal mains adapter**, with universal input and optional input socket adapters for EU, GB, USA, YKA-11, **€ 42,-**
- **3 Hook with safety catch**, cast steel, galvanised and lacquered, non-revolving, suitable for models
HFD 600, HFD 1T: KERN HFD-A01, **€ 40,-**
HFD 3T: KERN HFD-A02, **€ 55,-**
HFD 6T: KERN HFD-A03, **€ 95,-**
HFD 10T, HFD 12T: KERN HFD-A05, **€ 125,-**

STANDARD



OPTION



Model	Weighing range [Max] kg	Readout [d] g	Net weight approx. kg	4 Dimensions							Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate	
				A	B	C	D	E	F	G		DKD KERN	€
				mm	mm	mm	mm	mm	mm	mm			
Triple-range balance switches automatically to the next largest weighing range [Max] and readout [d]													
HFD 600K-1	150 300 600	50 100 200	11	194	129	145	421	383	50,8	50,8	370,-	963-130H	165,-
HFD 1T-4	300 600 1500	100 200 500	11	194	129	145	421	383	50,8	50,8	390,-	963-130H	165,-
HFD 3T-3	600 1500 3000	200 500 1000	11	194	129	145	421	383	50,8	50,8	620,-	963-132H	500,-
HFD 6T-3	1500 3000 6000	500 1000 2000	36	194	129	145	477	426	68,3	68,3	650,-	963-132H	500,-
HFD 10T-3	3000 6000 12000	1000 2000 5000	40	194	129	145	573	510	82,5	82,5	790,-	963-133H	700,-



KERN HFM



KERN HFO

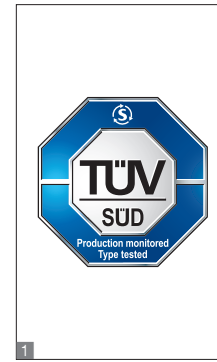
Industrial crane scale up to 10 t –
now also with EC type approval [M]

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
- **High mobility:** thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- **Adaptation to unstable environmental conditions** by changing the readability
- **High resolution readout:** Readout [d] for 5 sec increased by one decimal place at the touch of a key, only for models with EC type approval
- **Hold function:** When the weighing value remains unchanged the weight indicated on the display is automatically “frozen” until the Hold key is pressed
- **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, 2 × 1,5 V AAA

Technical data

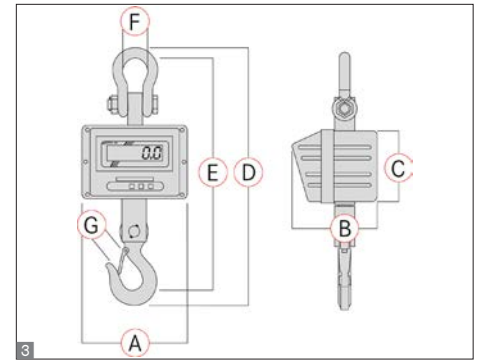
- Superior display size: digit height 30 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- Rechargeable battery pack internal, operating time up to 50 h without backlight, charging time approx. 14 h
- Precision: 0,2 % of [Max]
- Permissible ambient temperature 0 °C/40 °C



1



2



3

STANDARD





OPTION

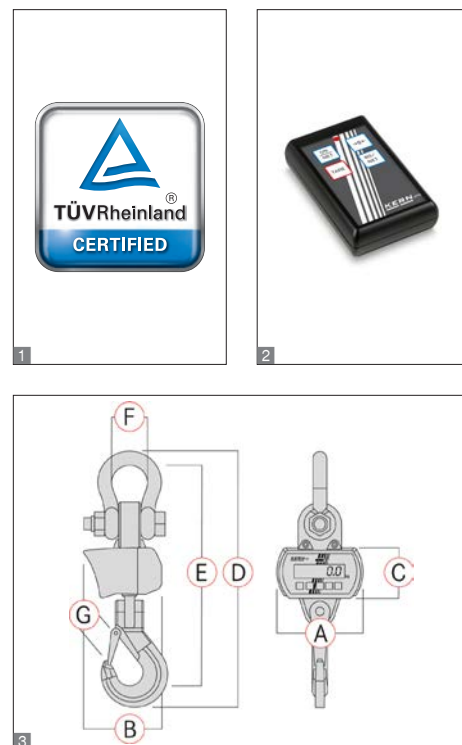


FACTORY



HFO

Model	Weighing range [Max] kg	Readout [d] g	Net weight approx. kg	3 Dimensions							Price excl. of VAT ex works €	Option				
												Verification		DAkkS Calibr. Certificate		
				A	B	C	D	E	F	G		 KERN	€	 KERN	€	
KERN				mm	mm	mm	mm	mm	mm	mm						
HFM 1T0.1	1000	100	14	270	175	200	610	540	68	40	720,-	-	-	963-130H	165,-	
HFM 3T0.5	3000	500	16	270	175	200	610	540	74	40	750,-	-	-	963-132H	500,-	
HFM 5T0.5	5000	500	24	300	190	230	730	650	74	55	970,-	-	-	963-132H	500,-	
HFM 10T1	10000	1000	34	300	190	230	840	750	92	60	1330,-	-	-	963-133H	700,-	
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.																
HFO 1.5T0.5M	1500	500	16	270	175	200	610	540	60	35	1050,-	965-130H	132,-	963-130H	165,-	
HFO 3T1M	3000	1000	17	270	175	200	610	540	80	47	1180,-	965-132H	200,-	963-132H	500,-	
HFO 6T2M	6000	2000	30	300	190	230	730	650	80	54	1470,-	965-132H	200,-	963-132H	500,-	



Robust industrial crane scale up to 12 t,
with EC type approval [M]

Features

- **1** With the **TÜV certification mark**, the scale meets 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
- **High mobility:** thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)

- Range of tare: 100 % of [Max]
- LED display with Gross/Tare/Net
- Standby function: display automatically switched off after 5 min without a change of load. Automatic activation with the touch of a 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**, non-revolving
- **2 Infrared remote control** standard. Range up to 20 m. All functions can be selected. W×D×H 65×24×100 mm. Batteries included, 9 V

Technical data

- Superior display size: digit height 25 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- Rechargeable battery pack internal, operating time up to 150 h without backlight, charging time approx. 12 h
- Precision: 0,1 % of [Max]
- Net weight
HTS 1T-4AM: approx. 7 kg
HTS 3T-3AM: approx. 9 kg
HTS 6T-3AM: approx. 12 kg
HTS 10T-3AM: approx. 20 kg
- Permissible ambient temperature
-20 °C/40 °C

STANDARD





OPTION



FACTORY

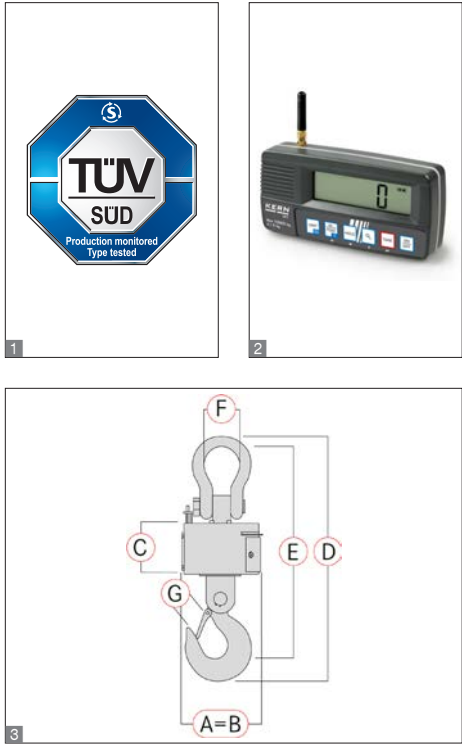


Model	Weighing range [Max] kg	Readout [d] g	Minimal load [Min] kg	3 Dimensions							Price excl. of VAT ex works €	Option			
												Verification		DAkkS Calibr. Certificate	
				A	B	C	D	E	F	G		 KERN	€	 KERN	€
KERN				mm	mm	mm	mm	mm	mm	mm		KERN	€	KERN	€
HTS 1T-4AM	1500	500	10	200	181	121	359	315	33	29	1190,-	965-130H	132,-	963-130H	165,-
HTS 3T-3AM	3000	1000	20	200	181	121	359	347	43	47	1250,-	965-132H	200,-	963-132H	500,-
HTS 6T-3AM	6000	2000	40	200	181	121	519	440	58	55	1320,-	965-132H	200,-	963-132H	500,-
HTS 10T-3AM	10000	5000	100	200	181	121	628	335	83	61	1460,-	965-133H	300,-	963-133H	700,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

Verification at the factory, we need to know the full address of the location of use.

1 ONLY WHILE STOCKS LAST !



Robust industrial crane scale up to 15 t with radio display and RS-232 data interface for transferring weighing results

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
- **Load receptor without display**, therefore very robust
- **Hold function**: When the weighing value remains unchanged the weight indicated on the display is automatically “frozen” until the Hold key is pressed
- **Hook with safety catch**, revolving
- **2** **Display with integrated radio module**, in this way the weighing data can easily be read off the display by the user, even if the user might find himself in a remote distance from the crane scale. Range up to 20 m. The integrated RS-232 data interface allows from connection to a printer, PC or network

Technical data

- Separate display with large, backlit LCD display, digit height 22 mm. Dimensions W×D×H 175×50×85 mm, incl. antenna W×D×H 130×650×130 mm
- Precision: 0,2 % of [Max]
- Permissible ambient temperature 0 °C/40 °C

Accessories

- Load receptor: **Rechargeable battery pack internal**, operating time up to 80 h without backlight, charging time approx. 8 h, KERN VFB-A02, **€ 50,-**
- Display device: **Rechargeable battery pack internal**, operating time up to 40 h without backlight, charging time approx. 4 h, KERN GAB-A04, **€ 40,-**
- **Interface cable RS-232**, to connect the display device to a printer, PC, etc., cable length approx.1,5 m, KERN KFF-A01, **€ 46,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

OPTION

+3 DAYS

Model	Weighing range	Readout	Net weight	3 Dimensions						Price excl. of VAT ex works €	Option	
											DAkkS Calibr. Certificate	
				A = B mm	C mm	D mm	E mm	F mm	G mm		DKD KERN	€
KERN	[Max] kg	[d] g	approx. kg									
HFT 3T0.5	3000	500	28	270	145	650	545	73	39	1270,-	963-132H	500,-
HFT 5T1	5000	1000	34	270	147	760	635	76	51	1510,-	963-132H	500,-
HFT 10T2	10000	2000	42	270	167	840	735	92	61	1880,-	963-133H	700,-
HFT 15T5	15000	5000	75	320	160	950	842	99	61	2650,-	963-133H	700,-



TIPS FROM THE EXPERTS

As well as our balances and microscope range, we can offer you an extensive range of measuring and testing technology as well as a comprehensive range of medical scales.

We will offer you reliable quality at fair prices and with the shortest delivery times. Our product specialists will give you professional advice, will work with you to find the right product and will provide comprehensive support after the purchase too. This ensures a high level of investment security and a good feeling – KERN, the nice balance manufacturer from the wilds of Southern Germany.

For all details on our ranges, please see www.kern-sohn.com or request your own personal catalogues right now: Telephone +49 [0] 7433 9933-0

#3 “Medical products from KERN – products you can rely on”

For years an established name in hospitals, in doctors’ surgeries, nursing homes and rehabilitation clinics.

Wherever reliable quality is important, look no further than the complete KERN range of medical scales, from baby scales, to personal scales, chair scales, obesity scales through to hand grip dynamometers.

KERN 2018 catalogue for medical balances – this is where you will find everything for day-to-day tasks in the medical industry!



*Hendrik Neff, product specialist
Medical scales*



Special equipment: Scales to meet Pre-packaging legislation

Pre-packaging legislation (FPVO)

This is anchored in the EC pre-packaging directive 76/211/EEC and serves as consumer protection within the framework of weights and measures laws when selling pre-packaged products commercially. It governs in detail the permitted tolerances (deviations) from the filling quantity stated on the sales label, as well as the quality of the verified balances being used for checking samples.

Pre-packaged products, which are produced and tested in accordance with pre-packaging legislation, carry the \in symbol on their label.

Choosing the right verified checkweigher depends, on one hand, on the weighing range required and the largest permitted verification value in relation to the nominal quantity of the pre-packaged goods.

Nominal contents Q_N of the pre-packed goods	largest permitted Verification Value [e]
≤ 10 g (ml)	0,1 g
from 10 g (ml) to ≤ 50 g (ml)	0,2 g
from 50 g (ml) to ≤ 150 g (ml)	0,5 g
from 150 g (ml) to ≤ 500 g (ml)	1,0 g
from 500 g (ml) to $\leq 2,5$ kg (l)	2,0 g
from 2,5 kg (l) and more	5,0 g
from 10 kg (l) to ≤ 15 kg (l)	10 g
from 15 kg (l) to ≤ 25 kg (l)	20 g
from 25 kg (l) to ≤ 100 kg (l)	50 g

Volume values in ml or l are calculated using the weight and density of the liquid.

Order example:

The item to be checked is a pre-packaged product with a filling quantity of 250 g and an average tare value of 100 g. In accordance with the table above, a filling quantity of 250 g requires a checkweigher with a verification value [e] of maximum 1 g.

The right KERN product is either the **KERN FKTF 3K0.5LM** or the **KERN FKTF 6K1LM**

Calibration periods for checkweighers: These are usually 1 year and are therefore shorter than the general re-verification periods in many European countries.



Sample testing of a pre-packaged item with an average tare value, i.e. the relative constant packaging weight is entered as a fixed value



Sample testing of a pre-packaged item with fluctuating packaging weight, such as glass containers, i.e. the tare weight is entered individually for each sample.



Sample testing of a pre-packaged item which is empty (destructive analysis)

Sven Göggel

Product specialist Scales to meet
Pre-packaging legislation







Tel. +49 [0] 7433 9933-189

Fax +49 [0] 7433 9933-195

goeggel@kern-sohn.com



Quick-Finder Scales to meet Pre-packaging legislation

Read-out [d] g	Weighing range [Max] kg	Model KERN	Price excl. of VAT ex works €	Page	 DAYS	 M	 CAL EXT	 MEMORY	 RS 232	 BATT
For an explanation on the pictos, see the front flap										
0,5	3	FKTF 3K0.5LM	1050,-	152	1	○	●	●	●	●
1	6	FKTF 6K1LM	1050,-	152	1	○	●	●	●	●
2	12	FKTF 12K2LM	1050,-	152	1	○	●	●	●	●
5	30	FKTF 30K5LM	1050,-	152	1	○	●	●	●	●
10	60	FKTF 60K10LM	1050,-	152	1	○	●	●	●	●

● = Standard ○ = Option



Checkweigher with touch screen operation for sampling tests in accordance with certified pre-packaging legislation and controlling fill quantities in the production process

Features

- **Touchscreen bench scale** with special software for testing, in accordance with weights and measures regulations, that the permitted error limits (minus deviations) have been observed, in accordance with pre-packaging legislation, and for production control and monitoring when filling pre-packaged items to a target weight
- **The verifiable KERN FKTF** fulfills all the regulations of pre-packaging legislation. It has EC type approval which fulfils verification requirements, and which covers the special software for pre-packing legislation
- **The special software for pre-packaging legislation in the KERN FKTF has two functions:**
 - a) When selling pre-packaged products, filling tolerances are regulated in verification terms, in the interests of consumer protection. Here the software supports

compliance with the verification regulations of the pre-packaging legislation during certified sampling tests using the automatically generated largest permitted negative deviation compared with a given target weight (LL 2)

b) In the area of food stuff production, when setting and adjusting the production facility for filling pre-packaged goods to a target weight, the software will automatically display the lower limit value (LL 1) below which the item is not permitted.

- **Statistical function** in the form of daily or weekly records, also with date/time, machine number and user statement. Graphic display is also possible
- **Password protection** for secure manipulation of data which has been stored and collected
- **Protective working cover** included with delivery

Modes

- ① Weighing
- ② Checkweighing function in accordance with pre-packaging legislation
- ③ Controlling fill quantities

Functions

- Capacity display with ①
- Date/time, with ①, ②, ③
- Tare deduction automatic, with ②
- 400 item memories for master data, such as limit values, tare weights, items, machine, user as well as upper limit (UL), lower limit (LL), lower limit 1 (LL 1) and lower limit 2 (LL 2) ②, ③
- Sample testing in accordance with pre-packaging legislation with average tare value ③
- Sample testing in accordance with pre-packaging legislation with fluctuating tare ③
- Sample testing in accordance with pre-packaging legislation with fluctuating tare ②, ③
- Testing in accordance with pre-packaging legislation with an empty item (destructive analysis) ③
- Daily statistics from 10 sets of measurements ③
- Weekly statistics from 49 sets of measurements ③

Technical data

- Large backlit LCD touch display, digit height 18 mm, screen diagonal 5,8" (127×74 mm)
- Dimensions weighing surface, stainless steel, W×D 340×240 mm
- Dimensions housing W×D×H 350×390×120 mm
- Optional battery operation, 6×1.5 V Size C not included, operating time up to 15 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, € 40,-
- **Matrix needle printer**, to print the weights on normal paper, ideal for long-term archiving, KERN 911-013, € 360,-
- **Suitable printers** see *Accessories*

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Readout [d] g	Verification value [e] g	Minimum loa [Min] g	Minimum nominal quantity g	Price excl. of VAT ex works €	Options			
							Verification		DAkkS Calibr. Certificate	
KERN								KERN	€	
FKTF 3K0.5LM	3	0,5	0,5	10	50	1050,-	965-227	55,-	963-127	72,-
FKTF 6K1LM	6	1	1	20	150	1050,-	965-228	70,-	963-128	88,-
FKTF 12K2LM	12	2	2	40	500	1050,-	965-228	70,-	963-128	88,-
FKTF 30K5LM	30	5	5	100	2500	1050,-	965-228	70,-	963-128	88,-
FKTF 60K10LM	60	10	10	200	10000	1050,-	965-229	93,-	963-129	105,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.

Verification at the factory, we need to know the full address of the location of use.

ONLY WHILE STOCKS LAST !

Accessories

Printers



Second display



Transport case



Ioniser



Stands

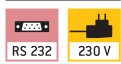


Interface adapter



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.

STANDARD



KERN 911-013

Matrix needle printer

For printing weighing results on normal paper, which is ideal for long-term archiving.

Technical data

- Needle print
- Speed: 1,8 line/sec
- Max. 40 characters per line
- Paper stripes: 57 mm wide
- Operation via mains adapter 230V/50Hz (standard EU), as standard
- Dimensions housing:
W×D×H 100×180×106 mm

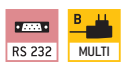
- Interface cable not included with delivery
- Not suitable for KERN DBS, PNS/PNJ, PES/PEJ ranges

Price printer without interface cable, KERN 911-013, **€ 360,-**

Accessories

- Paper rolls (10 pcs.), KERN 911-013-010, **€ 35,-**
- Universal mains adapter, standard EU/GB/US, KERN ABS-A01, **€ 80,-**

STANDARD



KERN YKN-01

Matrix needle printer

For printing weighing results on normal paper, which is ideal for long-term archiving.

Technical data

- Needle print
- Speed: 1 line/sec
- Max. 16 characters per line
- Paper stripes: 44 mm wide
- Operation via mains adapter 230V/50Hz, 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, **€ 230,-**

Accessories

- Paper rolls (5 pcs.), KERN YKN-A01, **€ 35,-**

STANDARD



KERN YKB-01N

Thermal printer

For printing weighing results, recipes, quantities etc. or for GLP record keeping of balance adjustment with date and time print. Language versions: DE, GB, FR.

Technical data

- Thermal print
- Speed: 0,75 lines/sec
- Max. 40 characters per line
- Paper stripes: 112 mm wide
- Operation via mains adapter 230V/50Hz, Standard EURO/UK/US, as standard

- Dimensions housing:
W×D×H 165×140×50 mm
- Interface cable not included with delivery

Price printer without interface cable, KERN YKB-01N, **€ 290,-**

Accessories

- Paper rolls (10 pcs.), KERN YKB-A10, **€ 55,-**

Individual header data:

For printers **KERN 911-013, YKN-01, YKB-01N, YKE-01 and YKC-01 (in combination with YKI-02)** 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, FKB-A, PCB, PCD.

STANDARD



KERN YKS-01

Thermal statistics printer

For printing weighing results, recipes etc. or for GLP record keeping of weighing data with date and time print (not in combination with KERN counting scales or KERN moisture analysers).
Numerator; with statistical functions such as count and total of all measurements, minimum and maximum values of the main unit, range (Max-Min), average value, standard deviation, available units: mg, g, kg, pcs. Language versions: DE, GB, FR.

- Max. 40 characters per line
- Paper stripes: 112 mm wide
- Operation via mains adapter 230V/50Hz, Standard EURO/UK/US, as standard
- Dimensions housing: W×D×H 165×140×50 mm
- Interface cable not included with delivery
- Not suitable for KERN PFB ranges

Price printer without interface cable, KERN YKS-01, **€ 390,-**

Technical data

- Thermal print
- Speed: 0,75 lines/sec

Accessories

Paper rolls (10 pcs.), KERN YKB-A10, **€ 55,-**

STANDARD



KERN YKE-01

Thermal label printer

Affordable universal label printer to print out weighing results on thermal labels, compatible with all KERN 2018 balances. ASCII-capable.

- Interface cable not included with delivery
- Not suitable for KERN CPB, RPB, CFS, CKE, IFS, CDS, CCS, BFS, KFS-TM ranges

Price printer without interface cable, KERN YKE-01, **€ 590,-**

Technical data

- Thermal print
- Speed: 22 mm/s
- Max. 82 characters per line
- Paper stripes: 112 mm wide
- Operation via mains adapter 230V/50Hz, Standard EURO/UK/US, as standard
- Dimensions housing: W×D×H 150×155×65 mm

Accessories

- Paper roll (1 pc.), Dimensions labels: W×D 73×61 mm, 100 labels: KERN YKE-A02, **€ 30,-** 105×48 mm, 45 labels: KERN YKE-A03, **€ 30,-**

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.

The interface cable is **free of charge** if you purchase balance, printer or Ethernet-/WLAN-/Bluetooth adapter together.

Note

Printer, ...	PC, YKI-01/-02/-03	911-013, YKE-01, YKB-01N, YKN-01	YKS-01	Price cable excl. of VAT ex works €
Balance	KERN	KERN	KERN	
440, 572, 573, ALJ-AM, ALS-A, ALT-B, CDS, CKE, DE-D, DS, EMB-V, FCB, FKA, FKB, FKC, FKB-A, FKT, FKTF, IKT, KB, PCB, PCD, PKS, PKT, PLJ-A, PLJ-F, PLS-A, PLS-F, PLE, PLT, KDP		572-926		46,-
EOC, IOC, BID		EOC-A12		
BFA, BFB, BFN, GAB-N, GAB-P, GAT, IFB, KFB-TAM, KFN-TAM, NBB, NFB, NFN, PFB, SFB, UFA, UFB, UFC, UFN		CFS-A01		
ABT-NM, PBJ, PBS		770-926		
HFT		KFF-A01		
EG-N, EW-N		474-926		
ADB, AEJ-CM, AEJ-NM, AES-C, AES-N, AET, CCP, CCT (for connecting the peripheral device to the PLJ-C reference balance), ILJ-C, ILS-C, ILT, PET, PLJ-C, PLJ-G, PNJ, PNS, PEJ, PES (printer/PC connection bidirectional)		MLB-A05		
DAB, KFS-T, KFS-T, MLS-D		MLB-A05	-	75,-
DLB, DLT; DBS (not suitable in combination with KERN 911-013)		572-926	-	
BFS, CCS, CFS, CPB, EWJ, KFG-TM, KFS-TM, KFT-TM, IFG, IFS (from year of production 2015), IFT, PFB, PFB-M, RPB		CFS-A01	-	
YKU-01	CFS-A01	-	-	
PEJ, PES (printer connection unidirectional)	-	474-926		100,-
ABJ-NM, ABS-N		ACS-A01		
BAN, BKN, BXS, IXS, KXS-TM, SXS		KXS-A04 (Factory Option)		
CCT (for connecting the peripheral device to the bulk scale ILT)		KET-A09		120,-

KERN SCD-4.0

BalanceConnection Software –

Flexible recording or transfer of measurements, particularly to Microsoft® Excel or Access

Features

- For operating systems Windows XP, Vista, 7, 8, 8.1, 10
- Supports balances measuring devices with RS 232, RS 485, Bluetooth, LAN or WLAN 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
 - ODBC/SQL databases such as SQL Server or MySQL
 - Transfer to HTTP Webservices/Web forms
 - Screen output such as large display, line chart (drying curve for moisture analyzer), histogram, etc.

- Enables the connection of medical balances to practice EDP systems using the device data transfer protocol (GDT) and also the HL7 protocol

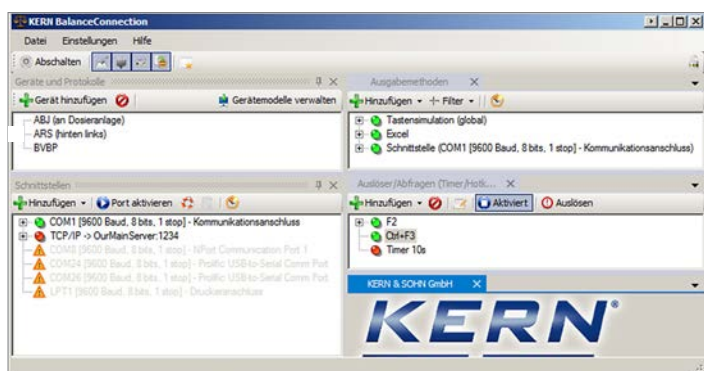
Benefits

- Typing errors during e.g. manual transfer are avoided
- Automatic recording, e.g. for long-term tests
- GLP-compliant lab software

KERN SCD-4.0, € 150,-

	Soll	Ist	Datum / Uhrzeit	Differenz	Abweichung	Gesamt	
4							
5	PBJ 4200-2M	Vaseline	200 g	200,47 g	07.05.2012 12:15	0,47 g 0,23%	200,47 g
6	(große Mengen)	Alkohol	400 g	411,21 g	07.05.2012 12:15	11,21 g 2,80%	611,68 g
7		Wasser	1000 g	1.002,39 g	07.05.2012 12:15	2,39 g 0,24%	1.614,07 g
8	ABJ 80-4M	Dropropizin	5,000 g	4,9993 g	07.05.2012 12:16	-0,0007 g -0,01%	1.619,0693 g
9	(kleine Mengen)	Theobromin	1,000 g	0,9984 g	07.05.2012 12:16	-0,0016 g -0,16%	1.620,0677 g

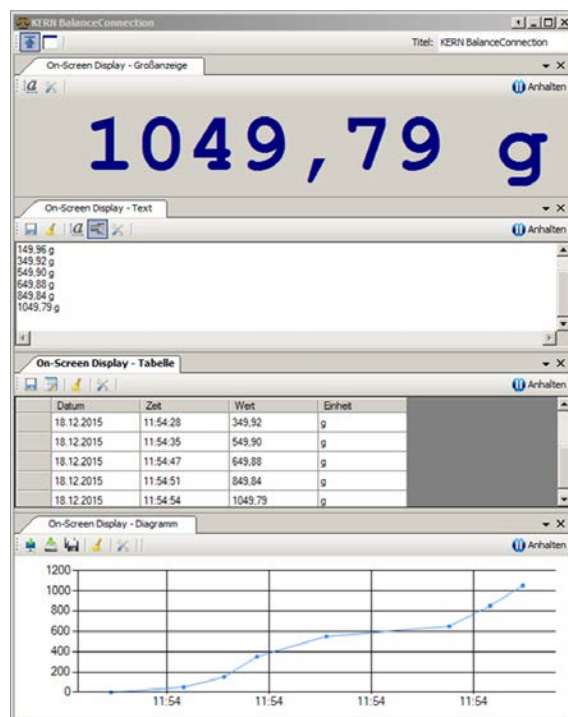
1 Easy transfer and editing of measuring results e.g. in Microsoft® Excel



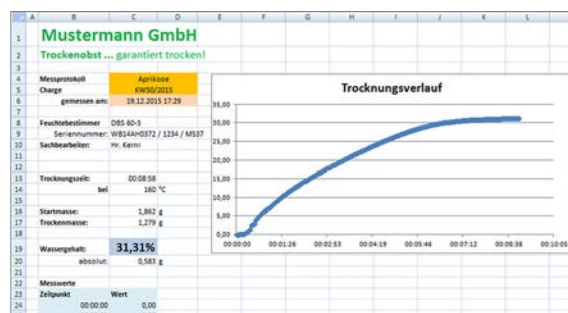
2 Full overview of devices, outputs, queries, interfaces, etc. shown on the output window immediately

Note

Do you have questions about our software? The team from our Industry 4.0 centre of expertise will be happy to help.
E-Mail: ITsupport@kern-sohn.com

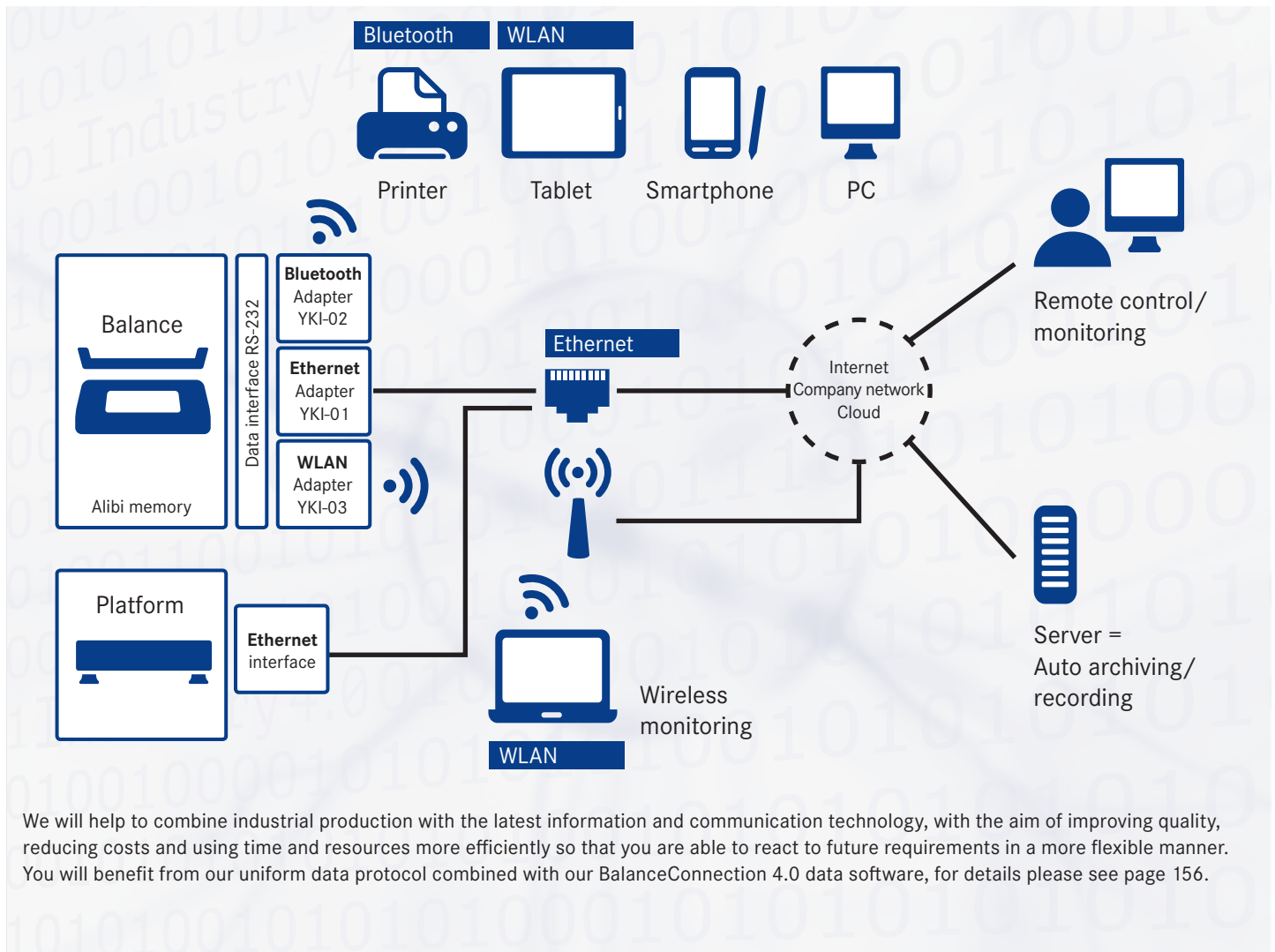


3 Different on-screen displays with export function



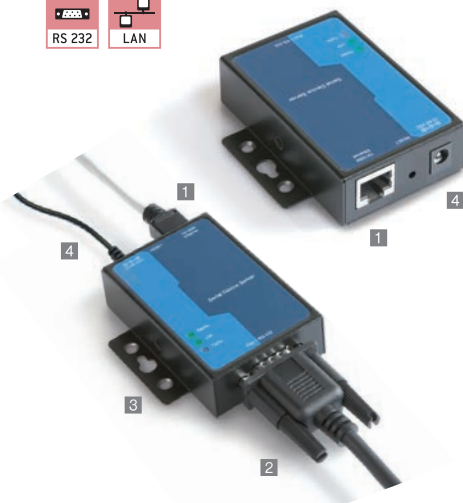
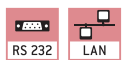
4 Measurement report with line chart showing a moisture analysis

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 156.

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.

If you order a KERN balance at the same time, then the interface cable is **free of charge** (please specify balance model).

KERN YKI-01

RS-232 / Ethernet adapter

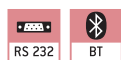
Adapter to connect balances, force measuring devices etc. with an RS-232 interface 2 to an IP-based Ethernet network 1. The adapter allows direct integration of measuring devices into most company networks, with automatic configuration using DHCP or statistical IP allocation. You can access the current 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, (interface cable see page 155).

KERN YKI-01, € 290,-



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. If you order a KERN balance at the same time, then the interface cable is **free of charge** (please specify balance model). ▼

STANDARD



KERN YKI-02

RS-232/Bluetooth-Adapter

adapter for the wireless connection of balances, force measuring devices etc. with an RS-232 interface to Bluetooth devices, such as Bluetooth printers (e.g. KERN YKC-01), 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 BalanceConnection software**.

Scope of delivery: RS-232/Bluetooth adapter, mains adapter (EU/UK/USA/AUS/CH) **2**, USB-A to Mini-USB-B cable **4**, gender changer **5**, driver CD, (interface cable see page 155).

KERN YKI-02, € 220,-

KERN YKI-03

RS-232/WLAN-Adapter

High-quality adapter for the wireless connection of balances, force measuring devices etc. with RS-232 interface to WLAN-enabled devices, such as 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 transferred without cable to a WLAN device or a network (relevant software on the WLAN device needed, not included in delivery). The adapter allows direct integration of measurement 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 measurement device with existing, non-network-compatible applications using a virtual COM port.

Compatible with **KERN BalanceConnection Software**. The adapter also has an Ethernet interface for a wired connection to an IP-based Ethernet network **1**. Thanks to the screw terminals **2**, the power connection can be implemented individually using individual wires or using the robust, screw-in power connector **3**. Large input voltage range from 12 V–48 V. Suitable for wall mounting and DIN track mount **4** or free-standing.

Scope of delivery: RS-232/WLAN adapter, mains adapter, network cable (1 m), driver CD, (interface cable see page 155).

KERN YKI-03, € 750,-

**KERN YKD-A02****Large display**

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 series IFB, BFB, NFB, UFA, UFB,

KERN YKD-A02, **€ 220,-**

**KERN CFS-A03****Signal lamp**

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 BFB, BFN, BID, CPB-N, GAB-N, GAB-P, IFB, IOC, KFB-TM, KFN-TM, KIB-TM, NBB, NFB, NFN, SFB, UFA, UFB, UFC, UFN,

KERN CFS-A03, **€ 250,-**

**KERN CFS-A04****2nd RS-232 data interface**

separate Y cable, e.g. for simultaneous connection of a printer, signal lamp etc. Suitable for series BAN, BFB, CFS, CPB-N, GAB-N, GAB-P, IFB, KFB-TM, NFB, NFN, UFN, UFA, UFB, SFB,

KERN CFS-A04, **€ 35,-**

**KERN AFH 12****RS-232/USB adapter**

to connect peripheral devices with USB connection, fits on all balances and measuring instruments with RS-232 port.

Scope of delivery:

Converter cable, CD with driver,

KERN AFH 12, **€ 85,-**

**KERN AFH 14****2 × RS-232/USB adapter**

to connect peripheral devices with USB connection, fits on all balances and measuring instruments with RS-232 port.

Scope of delivery:

Converter cable, CD with driver,

KERN AFH 14, **€ 115,-**

**KERN YKA-02****Power supply adapter set**

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, **€ 31,-**

**KERN YKP-01****Stand (tripodal)**

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 BFA, BBB, BFN, BBN, KEN-TM, NFN, SFB (from weighing plate size W×D 500×400 mm), UFN,

KERN YKP-01, **€ 370,-**

**KERN YKP-02****Stand (tripodal)**

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, BBB, BBN, BKN, IFS, IFB, KFE-TM, KXG-TM, KXS-TM, KEN-TM, NFB, NBB, SFE, UFA, UFB, UFC,

KERN YKP-02, **€ 210,-**



KERN RFS-A02

Tare pan

Made of stainless steel, which makes cleaning easy and hygienic. Ideal for weighing loose screws, small parts, fruit, vegetables, cheese, etc.

- W×D×H 370×240×20 mm
- Net weight approx. 524 g

KERN RFS-A02, € 55,-



KERN CH-A01N

Tare pan with pan beam

Made of stainless steel. Ideal for weighing loose small parts, fruit, vegetables etc. Max. load 30 kg. Removable tare pan which makes cleaning easy and hygienic. Suitable for models KERN CH 15K20, HCB 20K10, HCN 20K50IP, HDB-N.

- Dimensions: Tare pan ϕ /H 273×40 mm
- Pan beam: W×D×H 320×273×300 mm
- Total dimensions: W×D×H 320×273×340 mm
- Total net weight approx. 1000 g

KERN CH-A01N, € 70,-



KERN ABS-A08

Protective dust cover

For protection from dust and light. Suitable for all KERN analytical balances and precision balances with glass draught shield.

KERN ABS-A08, € 30,-



KERN YDB-03

Universal density set

Universal density set for precise and convenient density determination of liquids and solids $\leq/\geq 1$. Suitable for all KERN analytical balances.

Scope of delivery: Beaker (ϕ ×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, € 390,-

Optional:

Density determination of the volume plummet, DAkKS calibration certificate with all data relating to the density and volume,


KERN 962-335V, € 143,-



KERN YBI-01A

Ioniser to neutralise electrostatic charge

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

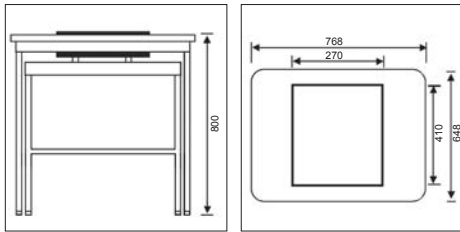
you can manually direct it from all sides onto a particular item to be weighed.

- 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 100-240V, 50/60 Hz, AC power supply, DC 12V, 500 mA, output,

KERN YBI-01A, € 940,-



STANDARD



KERN YPS-03

Weighing table

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 (34 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 easy and hygienic to clean
- Suitable for all KERN analytical balances with total dimensions $\leq W \times D$ 270×410 mm
- Total dimensions $W \times D \times H$ 768×648×800 mm (Height adjustable)
- Dimensions granite slab, $W \times D \times H$ 270×410×115 mm
- Net weight approx. 62 kg

Ready for shipping in 2 working days. Dispatch complete on pallet. Please ask for dimensions, gross weight, shipping costs,

KERN YPS-03, € 990,-

STANDARD



KERN YRO-01 / YRO-02 / YRO-03

Roller conveyor

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

- **1** Simply connect the roller conveyor attachment to a platform (e.g. KERN IFB, IFG, IFS, IXS, KFP, KXP, SXS) – 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 hazardous areas)
- Suitable for use in **dry environments**

- Roller distance approx. 30 mm
- Direction of movement is lengthways
- Total dimensions: $W \times D \times H$
YRO-01: 405×305×130 mm, suitable for platforms with weighing plate sizes $W \times D$ 400×300 mm
YRO-02: 505×405×130 mm, suitable for platforms with weighing plate sizes $W \times D$ 500×400 mm
YRO-03: 655×505×130 mm, suitable for platforms with weighing plate sizes $W \times D$ 650×500 mm
- Total net weight approx. YRO-01: 6 kg, YRO-02: 8 kg, YRO-03: 12 kg
- Scope of delivery: 1 roller conveyor attachment (without scale)

KERN YRO-01, € 660,-

KERN YRO-02, € 680,-

KERN YRO-03, € 910,-

Test weights

Weights yesterday and today

Weights have always been used to carry out weighing procedures. This original purpose has almost disappeared. Today, weights are used almost exclusively for adjusting and testing = calibration of electronic balances. We therefore call them "Test weights" as this is their purpose of use.

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 OIML norm 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 appropriate test weight is only classed as checking equipment according to ► **ISO 9000ff** if it has the relevant proof of accuracy, all KERN test weights come with an appropriate ► **DAkkS-calibration certificate**. For further details, see the calibration service section on page 182.

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 pre-requisite for proper balance calibration.

► **See the glossary on page 191–193**

Test weights: classes of accuracy E, F, M and their general relation to the types of balances:

- 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

KERN DAkkS delivery times & shipping type	Total weight ≤ 40 kg (gross weight, incl. packaging)	Total weight > 40 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, wooden boxes for individual weight sets etc. (e.g. 334-14 1ff, 347-14 1ff, 346-8 1ff, 315-040-100ff, 335-040-200ff)	on request	



Marietta Gulde

Product specialist Test weights

Tel. +49 [0] 7433 9933-288

Fax +49 [0] 7433 9933-29288

marietta.gulde@kern-sohn.com

Selection of the appropriate test weight for your balance

Correctly selected test weights with DAkkS calibration certificate are the pre-requisite for ensuring that your balances are not only correctly adjusted, but also correctly calibrated. Scheduled testing of your balances with such test weights helps to guarantee your quality requirements and to maintain your quality targets.

Here's how you find the right test weight for your balance:

A balance can never be more accurate than the test weight used to adjust it, it all depends on its tolerance.

Accuracy of the test weight: Should correspond to the readout [d] of the balance, or rather be better.

Nominal weight value: This 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 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 and table at page 164.

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 327-72, see page 169.

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 brass to stainless steel – the right test weight for every situation



Test weight → Features ↓	Cylindrical shape with lifting knob, polished stainless steel	Compact shape with carrying grip, polished stainless steel	Cylindrical shape with lifting knob, polished stainless steel or nickel-plated brass	Compact shape with carrying grip, finely turned stainless steel	Cylindrical shape with lifting knob, finely turned stainless steel	Cylindrical shape with lifting knob, finely turned brass
Conforms to OIML:R111	yes	yes	yes	no	yes	yes
Available classes	E1, E2	E2, F1	F1	adjusted to F1 error limit class	F2, M1	M1, M2, M3
Upper surface	polished	polished	polished	finely turned	finely turned	finely turned
Material	Stainless steel	Stainless steel	Stainless steel or nickel-plated brass	Stainless steel	Stainless steel	Brass
Adjusting cavity	no	no	yes	yes, from 20 g	yes, from 20 g	yes, from 20 g
Marking (Milligram weights, generally none)	no	E2: None F1: Nominal value, etched	Nominal value, etched	Nominal value, etched	F2: Class + nominal value, etched; M1: Class + nominal value, adopted	Class + nominal value, adopted
Verification possible	yes	yes	yes	no	yes	yes, M1 only
Checking equipment for verification purposes	approved	approved	approved	not approved	approved	approved, M1 only
Ideal as checking equipment in QM systems (e.g. ISO 9000 ff)	yes	yes	yes	yes	yes	yes
Benefits	<ul style="list-style-type: none"> • High-quality test weight for analytical and precision balances • Highly-refined surface • Ideal shape of the top for good grip 	<ul style="list-style-type: none"> • Affordable test weight for analytical and precision balances • Highly refined surface 	<ul style="list-style-type: none"> • Ideal, high-quality test weight for precision balances • Ideal shape of the top for good grip 	<ul style="list-style-type: none"> • Affordable test weight for in-house checking of precision balances 	<ul style="list-style-type: none"> • Ideal test weight for commercial and industrial scales • Ideal shape of the top for good grip 	<ul style="list-style-type: none"> • Affordable test weight for commercial and industrial scales • Ideal shape of the top for good grip

The key points from the OIML norm R111:2004

OIML (Organisation Internationale de Metrologie Legale) has established the exact metrological requirements for weights in verified applications in approx. 100 states all over the world. The OIML recommendation 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 ± ... 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, page 191–193

Nominal value ↓	OIML R 111:2004 Maximum permissible errors for weights = permissible tolerances “Tol ± mg”						
	E1	E2	F1	F2	M1	M2	M3
1 mg	± 0,003 mg	± 0,006 mg	± 0,020 mg	± 0,06 mg	± 0,20 mg	-	-
2 mg	± 0,003 mg	± 0,006 mg	± 0,020 mg	± 0,06 mg	± 0,20 mg	-	-
5 mg	± 0,003 mg	± 0,006 mg	± 0,020 mg	± 0,06 mg	± 0,20 mg	-	-
10 mg	± 0,003 mg	± 0,008 mg	± 0,025 mg	± 0,08 mg	± 0,25 mg	-	-
20 mg	± 0,003 mg	± 0,010 mg	± 0,03 mg	± 0,10 mg	± 0,3 mg	-	-
50 mg	± 0,004 mg	± 0,012 mg	± 0,04 mg	± 0,12 mg	± 0,4 mg	-	-
100 mg	± 0,005 mg	± 0,016 mg	± 0,05 mg	± 0,16 mg	± 0,5 mg	± 1,6 mg	-
200 mg	± 0,006 mg	± 0,020 mg	± 0,06 mg	± 0,20 mg	± 0,6 mg	± 2,0 mg	-
500 mg	± 0,008 mg	± 0,025 mg	± 0,08 mg	± 0,25 mg	± 0,8 mg	± 2,5 mg	-
1 g	± 0,010 mg	± 0,03 mg	± 0,10 mg	± 0,3 mg	± 1,0 mg	± 3,0 mg	± 10 mg
2 g	± 0,012 mg	± 0,04 mg	± 0,12 mg	± 0,4 mg	± 1,2 mg	± 4,0 mg	± 12 mg
5 g	± 0,016 mg	± 0,05 mg	± 0,16 mg	± 0,5 mg	± 1,6 mg	± 5,0 mg	± 16 mg
10 g	± 0,020 mg	± 0,06 mg	± 0,20 mg	± 0,6 mg	± 2,0 mg	± 6,0 mg	± 20 mg
20 g	± 0,025 mg	± 0,08 mg	± 0,25 mg	± 0,8 mg	± 2,5 mg	± 8,0 mg	± 25 mg
50 g	± 0,03 mg	± 0,10 mg	± 0,3 mg	± 1,0 mg	± 3,0 mg	± 10 mg	± 30 mg
100 g	± 0,05 mg	± 0,16 mg	± 0,5 mg	± 1,6 mg	± 5,0 mg	± 16 mg	± 50 mg
200 g	± 0,10 mg	± 0,3 mg	± 1,0 mg	± 3,0 mg	± 10 mg	± 30 mg	± 100 mg
500 g	± 0,25 mg	± 0,8 mg	± 2,5 mg	± 8,0 mg	± 25 mg	± 80 mg	± 250 mg
1 kg	± 0,5 mg	± 1,6 mg	± 5,0 mg	± 16 mg	± 50 mg	± 160 mg	± 500 mg
2 kg	± 1,0 mg	± 3,0 mg	± 10 mg	± 30 mg	± 100 mg	± 300 mg	± 1 000 mg
5 kg	± 2,5 mg	± 8,0 mg	± 25 mg	± 80 mg	± 250 mg	± 800 mg	± 2 500 mg
10 kg	± 5,0 mg	± 16 mg	± 50 mg	± 160 mg	± 500 mg	± 1 600 mg	± 5 000 mg
20 kg	± 10 mg	± 30 mg	± 100 mg	± 300 mg	± 1 000 mg	± 3 000 mg	± 10 g
50 kg	± 25 mg	± 80 mg	± 250 mg	± 800 mg	± 2 500 mg	± 8 000 mg	± 25 g
100 kg	-	± 160 mg	± 500 mg	± 1 600 mg	± 5 000 mg	± 16 g	± 50 g
200 kg	-	± 300 mg	± 1 000 mg	± 3 000 mg	± 10 g	± 30 g	± 100 g
500 kg	-	± 800 mg	± 2 500 mg	± 8 000 mg	± 25 g	± 80 g	± 250 g
1 000 kg	-	± 1 600 mg	± 5 000 mg	± 16 g	± 50 g	± 160 g	± 500 g
2 000 kg	-	-	± 10 g	± 30 g	± 100 g	± 300 g	± 1 000 g
5 000 kg	-	-	± 25 g	± 80 g	± 250 g	± 800 g	± 2 500 g

Composition table, valid for all KERN 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				
	mg mg mg mg mg mg mg mg mg mg mg mg mg mg														g g g g g				
Weight set ↓	mg mg mg mg mg mg mg mg mg mg mg mg mg mg														g g g g g				
1 mg – 500 mg	Total weight														1,11 g				
1 mg – 50 g															111,11 g				
1 mg – 100 g															211,11 g				
1 mg – 200 g															611,11 g				
1 mg – 500 g															1.111,11 g				
1 mg – 1 kg															2.111,11 g				
1 mg – 2 kg															6.111,11 g				
1 mg – 5 kg															11.111,11 g				
1 mg – 10 kg															21.111,11 g				

Class E1 • Milligram weights, wire shape, stainless steel



Test weight material: stainless steel
Box material: Wood

Milligram weight				+	Box		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
308-31	1 mg	0,003	58,-		338-090-200	14,-		962-251	52,-			124,-
308-32	2 mg	0,003	58,-		338-090-200	14,-		962-252	52,-			124,-
308-33	5 mg	0,003	58,-		338-090-200	14,-		962-253	52,-			124,-
308-34	10 mg	0,003	58,-		338-090-200	14,-		962-254	52,-			124,-
308-35	20 mg	0,003	58,-		338-090-200	14,-		962-255	52,-			124,-
308-36	50 mg	0,004	58,-		338-090-200	14,-		962-256	52,-			124,-
308-37	100 mg	0,005	58,-		338-090-200	14,-		962-257	52,-			124,-
308-38	200 mg	0,006	58,-		338-090-200	14,-		962-258	52,-			124,-
308-39	500 mg	0,008	58,-		338-090-200	14,-		962-259	52,-			124,-

Class E1 • Individual weights, cylindrical shape, polished stainless steel



For weights
≤ 500 g

For weights
≥ 1 kg

Test weight material: Polished stainless steel
Box material: Lined wood

Individual weight				+	Box		+	DAkkS certificate Initial calibration*		=	Package price	DAkkS certificate Recalibration	
KERN		Tol ± mg	€		KERN	€		KERN	€		€	KERN	€
307-01	1 g	0,010	83,-		317-010-100	28,-		963-231	193,-		304,-	962-231 R	52,-
307-02	2 g	0,012	89,-		317-020-100	28,-		963-232	193,-		310,-	962-232 R	52,-
307-03	5 g	0,016	96,-		317-030-100	28,-		963-233	193,-		317,-	962-233 R	52,-
307-04	10 g	0,020	104,-		317-040-100	28,-		963-234	193,-		325,-	962-234 R	52,-
307-05	20 g	0,025	113,-		317-050-100	28,-		963-235	193,-		334,-	962-235 R	52,-
307-06	50 g	0,03	135,-		317-060-100	28,-		963-236	193,-		356,-	962-236 R	52,-
307-07	100 g	0,05	162,-		317-070-100	28,-		963-237	193,-		383,-	962-237 R	52,-
307-08	200 g	0,10	194,-		317-080-100	28,-		963-238	193,-		415,-	962-238 R	52,-
307-09	500 g	0,25	280,-		317-090-100	31,-		963-239	193,-		504,-	962-239 R	52,-
307-11	1 kg	0,5	425,-		317-110-100	35,-		963-241	193,-		653,-	962-241 R	52,-
307-12	2 kg	1,0	630,-		317-120-100	44,-		963-242	465,-		1139,-	962-242 R	64,-
307-13	5 kg	2,5	1060,-		317-130-100	66,-		963-243	465,-		1591,-	962-243 R	64,-
307-14	10 kg	5,0	1530,-		317-140-100	89,-		963-244	465,-		2084,-	962-244 R	64,-
307-15	20 kg	10,0	3100,-		317-150-100	340,-		963-245	1160,-		4600,-	962-245 R	590,-
307-16	50 kg	25,0	5900,-		317-160-100	415,-		963-246	1360,-		7675,-	962-246 R	660,-

* For E1 weights > 1g at the point of initial calibration, a volume determination will be carried out in accordance with OIML:R111.
When recalibrating, this is not required.

Class E1 • Weight sets, cylindrical shape, polished stainless steel



Test weight material: Polished stainless steel
Case material: Lined wood. Milligram weights 1 mg – 500 mg in plastic box

Weight set			+	DAkkS certificate Initial calibration		=	Package price		DAkkS certificate Recalibration	
KERN		€		KERN	€		KERN	€	KERN	€
308-42	1 mg – 500 mg	780,-		962-250	350,-		1130,-		962-250 R	350,-
303-02	1 mg – 50 g	1540,-		963-201	1070,-		2610,-		962-201 R	560,-
303-03	1 mg – 100 g	1700,-		963-202	1170,-		2870,-		962-202 R	580,-
303-04	1 mg – 200 g	2090,-		963-203	1350,-		3440,-		962-203 R	630,-
303-05	1 mg – 500 g	2420,-		963-204	1440,-		3860,-		962-204 R	660,-
303-06	1 mg – 1 kg	2840,-		963-205	1530,-		4370,-		962-205 R	700,-
303-07	1 mg – 2 kg	4150,-		963-206	2000,-		6150,-		962-206 R	750,-
303-08	1 mg – 5 kg	5300,-		963-207	2450,-		7750,-		962-207 R	770,-
303-09	1 mg – 10 kg	6890,-		963-208	2900,-		9790,-		962-208 R	800,-
304-02	1 g – 50 g	910,-		963-215	770,-		1680,-		962-215 R	245,-
304-03	1 g – 100 g	1070,-		963-216	860,-		1930,-		962-216 R	270,-
304-04	1 g – 200 g	1460,-		963-217	1040,-		2500,-		962-217 R	320,-
304-05	1 g – 500 g	1790,-		963-218	1130,-		2920,-		962-218 R	350,-
304-06	1 g – 1 kg	2210,-		963-219	1230,-		3440,-		962-219 R	375,-
304-07	1 g – 2 kg	3520,-		963-220	1780,-		5300,-		962-220 R	425,-
304-08	1 g – 5 kg	4670,-		963-221	2230,-		6900,-		962-221 R	450,-
304-09	1 g – 10 kg	6260,-		963-222	2690,-		8950,-		962-222 R	485,-

Class E2 • Milligram weights, flat polygonal sheet, aluminium/German silver

Test weight material: Aluminium 1 mg – 5 mg/German silver 10 mg – 500 mg

Container material: Lined plastic



Milligram weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
318-01	1 mg	0,006	24,-		347-009-400	2,-		962-351	26,-			52,-
318-02	2 mg	0,006	24,-		347-009-400	2,-		962-352	26,-			52,-
318-03	5 mg	0,006	24,-		347-009-400	2,-		962-353	26,-			52,-
318-04	10 mg	0,008	24,-		347-009-400	2,-		962-354	26,-			52,-
318-05	20 mg	0,010	24,-		347-009-400	2,-		962-355	26,-			52,-
318-06	50 mg	0,012	24,-		347-009-400	2,-		962-356	26,-			52,-
318-07	100 mg	0,016	24,-		347-009-400	2,-		962-357	26,-			52,-
318-08	200 mg	0,020	24,-		347-009-400	2,-		962-358	26,-			52,-
318-09	500 mg	0,025	24,-		347-009-400	2,-		962-359	26,-			52,-

Class E2 • Individual weights, compact shape, polished stainless steel

Test weight material: Polished stainless steel

Container material: Lined plastic



Individual weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
316-01	1 g	0,03	33,-		317-020-400	6,-		962-331	26,-			65,-
316-02	2 g	0,04	35,-		317-020-400	6,-		962-332	26,-			67,-
316-03	5 g	0,05	37,-		317-030-400	6,-		962-333	26,-			69,-
316-04	10 g	0,06	39,-		317-040-400	6,-		962-334	26,-			71,-
316-05	20 g	0,08	45,-		317-050-400	6,-		962-335	26,-			77,-
316-06	50 g	0,10	48,-		317-060-400	6,-		962-336	26,-			80,-
316-07	100 g	0,16	52,-		317-070-400	6,-		962-337	33,-			91,-
316-08	200 g	0,3	66,-		317-080-400	6,-		962-338	33,-			105,-
316-09	500 g	0,8	111,-		317-090-400	9,-		962-339	33,-			153,-
316-11	1 kg	1,6	161,-		317-110-400	9,-		962-341	33,-			203,-
316-12	2 kg	3,0	260,-		317-120-400	9,-		962-342	41,-			310,-
316-13	5 kg	8,0	375,-		317-130-400	15,-		962-343	41,-			431,-
316-14	10 kg	16,0	530,-		317-140-400	20,-		962-344	41,-			591,-

Class E2 • Individual weights, cylindrical shape, polished stainless steel

Test weight material: Polished stainless steel

Container material: Lined plastic or wooden box (317-150-100 and 317-160-100)



Individual weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
317-01	1 g	0,03	47,-		317-020-400	6,-		962-331	26,-			79,-
317-02	2 g	0,04	50,-		317-020-400	6,-		962-332	26,-			82,-
317-03	5 g	0,05	54,-		317-030-400	6,-		962-333	26,-			86,-
317-04	10 g	0,06	56,-		317-040-400	6,-		962-334	26,-			88,-
317-05	20 g	0,08	65,-		317-050-400	6,-		962-335	26,-			97,-
317-06	50 g	0,10	76,-		317-060-400	6,-		962-336	26,-			108,-
317-07	100 g	0,16	82,-		317-070-400	6,-		962-337	33,-			121,-
317-08	200 g	0,3	104,-		317-080-400	6,-		962-338	33,-			143,-
317-09	500 g	0,8	175,-		317-090-400	9,-		962-339	33,-			217,-
317-11	1 kg	1,6	260,-		317-110-400	9,-		962-341	33,-			302,-
317-12	2 kg	3,0	415,-		317-120-400	9,-		962-342	41,-			465,-
317-13	5 kg	8,0	590,-		317-130-400	15,-		962-343	41,-			646,-
317-14	10 kg	16,0	850,-		317-140-400	20,-		962-344	41,-			911,-
317-15	20 kg	30,0	1680,-		317-150-100	340,-		962-345	52,-			2072,-
317-16	50 kg	80,0	3500,-		317-160-100	415,-		962-346	64,-			3979,-

For individual weights, wooden boxes are also available as an alternative to the plastic containers.

For more details on this, please see page 180

For weights
≤ 500 gFor weights
≥ 1 kg

Class E2 • Weight sets, compact shape, polished stainless steel

Test weight material: Polished stainless steel

Case material: Lined plastic

Weight set			+ DAKkS certificate		= Package price
KERN		€	KERN	€	KERN €
312-024	1 g – 50 g	370,-	962-315	127,-	497,-
312-034	1 g – 100 g	410,-	962-316	150,-	560,-
312-044	1 g – 200 g	500,-	962-317	196,-	696,-
312-054	1 g – 500 g	610,-	962-318	220,-	830,-
312-064	1 g – 1 kg	810,-	962-319	245,-	1055,-
312-074	1 g – 2 kg	1310,-	962-320	305,-	1615,-
312-084	1 g – 5 kg	1650,-	962-321	340,-	1990,-

Class E2 • Weight sets, cylindrical shape, polished stainless steel

Test weight material: Individual weights, polished stainless steel,

milligram weights aluminium/German silver

Case material: Lined plastic. Milligram weights 1 mg – 500 mg in plastic box

Weight set			+ DAKkS certificate		= Package price
KERN		€	KERN	€	KERN €
318-22	1 mg – 500 mg	320,-	962-350	190,-	510,-
313-024	1 mg – 50 g	820,-	962-301	315,-	1135,-
313-034	1 mg – 100 g	910,-	962-302	340,-	1250,-
313-044	1 mg – 200 g	1110,-	962-303	385,-	1495,-
313-054	1 mg – 500 g	1270,-	962-304	410,-	1680,-
313-064	1 mg – 1 kg	1630,-	962-305	435,-	2065,-
313-074	1 mg – 2 kg	2460,-	962-306	495,-	2955,-
313-084	1 mg – 5 kg	3050,-	962-307	530,-	3580,-
314-024	1 g – 50 g	540,-	962-315	127,-	667,-
314-034	1 g – 100 g	620,-	962-316	150,-	770,-
314-044	1 g – 200 g	830,-	962-317	196,-	1026,-
314-054	1 g – 500 g	1010,-	962-318	220,-	1230,-
314-064	1 g – 1 kg	1340,-	962-319	245,-	1585,-
314-074	1 g – 2 kg	2180,-	962-320	305,-	2485,-
314-084	1 g – 5 kg	2760,-	962-321	340,-	3100,-

Class E2 • Weight sets, cylindrical shape, polished stainless steel

Test weight material: Individual weights, polished stainless steel,

milligram weights aluminium /German silver

Case material: Lined wood. Milligram weights 1 mg – 500 mg in plastic box

Weight set			+ DAKkS certificate		= Package price
KERN		€	KERN	€	KERN €
318-22	1 mg – 500 mg	320,-	962-350	190,-	510,-
313-02	1 mg – 50 g	880,-	962-301	315,-	1195,-
313-03	1 mg – 100 g	960,-	962-302	340,-	1300,-
313-04	1 mg – 200 g	1170,-	962-303	385,-	1555,-
313-05	1 mg – 500 g	1400,-	962-304	410,-	1810,-
313-06	1 mg – 1 kg	1670,-	962-305	435,-	2105,-
313-07	1 mg – 2 kg	2550,-	962-306	495,-	3045,-
313-08	1 mg – 5 kg	3250,-	962-307	530,-	3780,-
313-09	1 mg – 10 kg	4180,-	962-308	560,-	4740,-
314-02	1 g – 50 g	590,-	962-315	127,-	717,-
314-03	1 g – 100 g	670,-	962-316	150,-	820,-
314-04	1 g – 200 g	880,-	962-317	196,-	1076,-
314-05	1 g – 500 g	1120,-	962-318	220,-	1340,-
314-06	1 g – 1 kg	1380,-	962-319	245,-	1625,-
314-07	1 g – 2 kg	2260,-	962-320	305,-	2565,-
314-08	1 g – 5 kg	2960,-	962-321	340,-	3300,-
314-09	1 g – 10 kg	3890,-	962-322	370,-	4260,-

Class F1 • Milligram weights, flat polygonal sheet, aluminium/German silver

Test weight material: Aluminium 1 mg – 5 mg/German silver 10 mg – 500 mg

Container material: Lined plastic



Milligram weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
328-01	1 mg	0,020	11,-		347-009-400	2,-		962-451	18,-			31,-
328-02	2 mg	0,020	11,-		347-009-400	2,-		962-452	18,-			31,-
328-03	5 mg	0,020	11,-		347-009-400	2,-		962-453	18,-			31,-
328-04	10 mg	0,025	11,-		347-009-400	2,-		962-454	18,-			31,-
328-05	20 mg	0,03	11,-		347-009-400	2,-		962-455	18,-			31,-
328-06	50 mg	0,04	11,-		347-009-400	2,-		962-456	18,-			31,-
328-07	100 mg	0,05	11,-		347-009-400	2,-		962-457	18,-			31,-
328-08	200 mg	0,06	11,-		347-009-400	2,-		962-458	18,-			31,-
328-09	500 mg	0,08	11,-		347-009-400	2,-		962-459	18,-			31,-

Individual weights, compact shape, finely turned stainless steel

Test weight material: finely turned stainless steel

Container material: Lined plastic

■ Build type: Does not conform to OIML:R111, adjusted to F1 error limit class, however no mention of the OIML error limit classes on the calibration certificate



Individual weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
329-01	1 g	0,10	18,-		347-030-400	2,-		962-431	18,-			38,-
329-02	2 g	0,12	19,-		347-030-400	2,-		962-432	18,-			39,-
329-03	5 g	0,16	20,-		347-030-400	2,-		962-433	18,-			40,-
329-04	10 g	0,20	23,-		347-050-400	2,-		962-434	18,-			43,-
329-05	20 g	0,25	25,-		347-050-400	2,-		962-435	18,-			45,-
329-06	50 g	0,3	27,-		347-070-400	2,-		962-436	18,-			47,-
329-07	100 g	0,5	31,-		347-070-400	2,-		962-437	20,-			53,-
329-08	200 g	1,0	41,-		347-080-400	2,-		962-438	20,-			63,-
329-09	500 g	2,5	58,-		347-090-400	3,-		962-439	20,-			81,-
329-11	1 kg	5,0	83,-		347-110-400	3,-		962-441	20,-			106,-
329-12	2 kg	10	127,-		347-120-400	3,-		962-442	25,-			155,-
329-13	5 kg	25	220,-		347-130-400	9,-		962-443	25,-			254,-
329-14	10 kg	50	410,-		347-140-400	9,-		962-444	25,-			444,-

Class F1 • Individual weights, compact shape, polished stainless steel

Test weight material: Polished stainless steel

Container material: Lined plastic



Individual weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
326-01	1 g	0,10	22,-		347-030-400	2,-		962-431	18,-			42,-
326-02	2 g	0,12	23,-		347-030-400	2,-		962-432	18,-			43,-
326-03	5 g	0,16	25,-		347-030-400	2,-		962-433	18,-			45,-
326-04	10 g	0,20	28,-		347-050-400	2,-		962-434	18,-			48,-
326-05	20 g	0,25	29,-		347-050-400	2,-		962-435	18,-			49,-
326-06	50 g	0,3	32,-		347-070-400	2,-		962-436	18,-			52,-
326-07	100 g	0,5	36,-		347-070-400	2,-		962-437	20,-			58,-
326-08	200 g	1,0	49,-		347-080-400	2,-		962-438	20,-			71,-
326-09	500 g	2,5	68,-		347-090-400	3,-		962-439	20,-			91,-
326-11	1 kg	5,0	101,-		347-110-400	3,-		962-441	20,-			124,-
326-12	2 kg	10	150,-		347-120-400	3,-		962-442	25,-			178,-
326-13	5 kg	25	260,-		347-130-400	9,-		962-443	25,-			294,-
326-14	10 kg	50	485,-		347-140-400	9,-		962-444	25,-			519,-

Class F1 • Individual weights, cylindrical shape, nickel-plated and polished brass

Test weight material: Nickel-plated and polished brass
Container material: Lined plastic or lined wooden box (317-150-100 and 317-160-100)



Individual weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
327-61	1 g	0,10	23,-		347-030-400	2,-		962-431	18,-			43,-
327-62	2 g	0,12	24,-		347-030-400	2,-		962-432	18,-			44,-
327-63	5 g	0,16	26,-		347-030-400	2,-		962-433	18,-			46,-
327-64	10 g	0,20	29,-		347-050-400	2,-		962-434	18,-			49,-
327-65	20 g	0,25	31,-		347-050-400	2,-		962-435	18,-			51,-
327-66	50 g	0,3	34,-		347-070-400	2,-		962-436	18,-			54,-
327-67	100 g	0,5	38,-		347-070-400	2,-		962-437	20,-			60,-
327-68	200 g	1,0	52,-		347-080-400	2,-		962-438	20,-			74,-
327-69	500 g	2,5	72,-		347-090-400	3,-		962-439	20,-			95,-
327-71	1 kg	5,0	106,-		347-110-400	3,-		962-441	20,-			129,-
327-72	2 kg	10	158,-		347-120-400	3,-		962-442	25,-			186,-
327-73	5 kg	25	270,-		347-130-400	9,-		962-443	25,-			304,-
327-74	10 kg	50	510,-		347-140-400	9,-		962-444	25,-			544,-
327-75	20 kg	100	960,-		317-150-100	340,-		962-445	28,-			1328,-
327-76	50 kg	250	1800,-		317-160-100	415,-		962-446	39,-			2254,-

Class F1 • Individual weights, cylindrical shape, polished stainless steel

Test weight material: Polished stainless steel
Container material: Lined plastic or lined wooden box (317-150-100 and 317-160-100)



Individual weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
327-01	1 g	0,10	30,-		347-030-400	2,-		962-431	18,-			50,-
327-02	2 g	0,12	31,-		347-030-400	2,-		962-432	18,-			51,-
327-03	5 g	0,16	33,-		347-030-400	2,-		962-433	18,-			53,-
327-04	10 g	0,20	37,-		347-050-400	2,-		962-434	18,-			57,-
327-05	20 g	0,25	41,-		347-050-400	2,-		962-435	18,-			61,-
327-06	50 g	0,3	45,-		347-070-400	2,-		962-436	18,-			65,-
327-07	100 g	0,5	55,-		347-070-400	2,-		962-437	20,-			77,-
327-08	200 g	1,0	72,-		347-080-400	2,-		962-438	20,-			94,-
327-09	500 g	2,5	118,-		347-090-400	3,-		962-439	20,-			141,-
327-11	1 kg	5,0	165,-		347-110-400	3,-		962-441	20,-			188,-
327-12	2 kg	10	250,-		347-120-400	3,-		962-442	25,-			278,-
327-13	5 kg	25	375,-		347-130-400	9,-		962-443	25,-			409,-
327-14	10 kg	50	680,-		347-140-400	9,-		962-444	25,-			714,-
327-15	20 kg	100	1350,-		317-150-100	340,-		962-445	28,-			1718,-
327-16	50 kg	250	2900,-		317-160-100	415,-		962-446	39,-			3354,-



Alternative to plastic container:
Wooden boxes for individual weights. For more details on this, please see page 180

Weight sets, compact shape, finely turned stainless steel

Check weight material: finely turned stainless steel, Case material: Lined plastic

Build type: Does not conform to OIML:R111, adjusted to F1 error limit class, however no mention of the OIML error limit classes on the calibration certificate

Weight set			+ DAKkS certificate		= Package price
KERN		€	KERN	€	KERN €
321-024	1 g – 50 g	185,-	962-415	67,-	252,-
321-034	1 g – 100 g	215,-	962-416	77,-	292,-
321-044	1 g – 200 g	280,-	962-417	98,-	378,-
321-054	1 g – 500 g	320,-	962-418	109,-	429,-
321-064	1 g – 1 kg	460,-	962-419	119,-	579,-
321-074	1 g – 2 kg	640,-	962-420	151,-	791,-
321-084	1 g – 5 kg	820,-	962-421	166,-	986,-

Class F1 • Weight sets, compact shape, polished stainless steel

Test weight material: Polished stainless steel

Case material: Lined plastic

Weight set			+ DAKkS certificate		= Package price
KERN		€	KERN	€	KERN €
322-024	1 g – 50 g	235,-	962-415	67,-	302,-
322-034	1 g – 100 g	270,-	962-416	77,-	347,-
322-044	1 g – 200 g	350,-	962-417	98,-	448,-
322-054	1 g – 500 g	410,-	962-418	109,-	519,-
322-064	1 g – 1 kg	580,-	962-419	119,-	699,-
322-074	1 g – 2 kg	810,-	962-420	151,-	961,-
322-084	1 g – 5 kg	1030,-	962-421	166,-	1196,-

Class F1 • Weight sets, cylindrical shape, polished and nickel-plated brass or polished stainless steel

Test weight material: Individual weights – nickel-plated and polished brass or polished stainless steel, milligram weights – aluminium 1 mg – 5 mg/German silver 10 mg – 500 mg

Case material: Lined plastic. Milligram weights 1 mg – 500 mg in plastic box



Weight set			+ DAKkS certificate		= Package price
KERN		€	KERN	€	KERN €
328-22	1 mg – 500 mg	175,-	962-450	100,-	275,-
Polished and nickel-plated brass					
323-624	1 mg – 50 g	400,-	962-401	167,-	567,-
323-634	1 mg – 100 g	435,-	962-402	178,-	613,-
323-644	1 mg – 200 g	530,-	962-403	199,-	729,-
323-654	1 mg – 500 g	590,-	962-404	210,-	800,-
323-664	1 mg – 1 kg	750,-	962-405	220,-	970,-
323-674	1 mg – 2 kg	1030,-	962-406	250,-	1280,-
323-684	1 mg – 5 kg	1270,-	962-407	265,-	1535,-
324-624	1 g – 50 g	260,-	962-415	67,-	327,-
324-634	1 g – 100 g	300,-	962-416	77,-	377,-
324-644	1 g – 200 g	380,-	962-417	98,-	478,-
324-654	1 g – 500 g	450,-	962-418	109,-	559,-
324-664	1 g – 1 kg	630,-	962-419	119,-	749,-
324-674	1 g – 2 kg	900,-	962-420	151,-	1051,-
324-684	1 g – 5 kg	1140,-	962-421	166,-	1306,-
Polished stainless steel					
323-024	1 mg – 50 g	500,-	962-401	167,-	667,-
323-034	1 mg – 100 g	560,-	962-402	178,-	738,-
323-044	1 mg – 200 g	700,-	962-403	199,-	899,-
323-054	1 mg – 500 g	820,-	962-404	210,-	1030,-
323-064	1 mg – 1 kg	1070,-	962-405	220,-	1290,-
323-074	1 mg – 2 kg	1570,-	962-406	250,-	1820,-
323-084	1 mg – 5 kg	1920,-	962-407	265,-	2185,-
324-024	1 g – 50 g	340,-	962-415	67,-	407,-
324-034	1 g – 100 g	400,-	962-416	77,-	477,-
324-044	1 g – 200 g	540,-	962-417	98,-	638,-
324-054	1 g – 500 g	660,-	962-418	109,-	769,-
324-064	1 g – 1 kg	890,-	962-419	119,-	1009,-
324-074	1 g – 2 kg	1400,-	962-420	151,-	1551,-
324-084	1 g – 5 kg	1750,-	962-421	166,-	1916,-

Class F1 • Weight sets, cylindrical shape, nickel-plated and polished brass or polished stainless steel

Test weight material: Individual weights polished or nickel-plated brass or polished stainless steel, milligram weights aluminium 1 mg – 5 mg/German silver 10 mg – 500 mg
Case material: Lined wood. Milligram weights 1 mg – 500 mg in plastic box



Weight set			+ DAKkS certificate		= Package price
KERN		€	KERN	€	KERN €
328-22	1 mg – 500 mg	175,-	962-450	100,-	275,-
Polished and nickel-plated brass					
323-62	1 mg – 50 g	455,-	962-401	167,-	622,-
323-63	1 mg – 100 g	485,-	962-402	178,-	663,-
323-64	1 mg – 200 g	580,-	962-403	199,-	779,-
323-65	1 mg – 500 g	700,-	962-404	210,-	910,-
323-66	1 mg – 1 kg	790,-	962-405	220,-	1010,-
323-67	1 mg – 2 kg	1120,-	962-406	250,-	1370,-
323-68	1 mg – 5 kg	1470,-	962-407	265,-	1735,-
323-69	1 mg – 10 kg	1990,-	962-408	285,-	2275,-
324-62	1 g – 50 g	310,-	962-415	67,-	377,-
324-63	1 g – 100 g	350,-	962-416	77,-	427,-
324-64	1 g – 200 g	435,-	962-417	98,-	533,-
324-65	1 g – 500 g	560,-	962-418	109,-	669,-
324-66	1 g – 1 kg	660,-	962-419	119,-	779,-
324-67	1 g – 2 kg	980,-	962-420	151,-	1131,-
324-68	1 g – 5 kg	1330,-	962-421	166,-	1496,-
324-69	1 g – 10 kg	1850,-	962-422	182,-	2032,-
Polished stainless steel					
323-02	1 mg – 50 g	560,-	962-401	167,-	727,-
323-03	1 mg – 100 g	610,-	962-402	178,-	788,-
323-04	1 mg – 200 g	750,-	962-403	199,-	949,-
323-05	1 mg – 500 g	930,-	962-404	210,-	1140,-
323-06	1 mg – 1 kg	1100,-	962-405	220,-	1320,-
323-07	1 mg – 2 kg	1650,-	962-406	250,-	1900,-
323-08	1 mg – 5 kg	2110,-	962-407	265,-	2375,-
323-09	1 mg – 10 kg	2880,-	962-408	285,-	3165,-
324-02	1 g – 50 g	390,-	962-415	67,-	457,-
324-03	1 g – 100 g	450,-	962-416	77,-	527,-
324-04	1 g – 200 g	600,-	962-417	98,-	698,-
324-05	1 g – 500 g	760,-	962-418	109,-	869,-
324-06	1 g – 1 kg	940,-	962-419	119,-	1059,-
324-07	1 g – 2 kg	1480,-	962-420	151,-	1631,-
324-08	1 g – 5 kg	1950,-	962-421	166,-	2116,-
324-09	1 g – 10 kg	2710,-	962-422	182,-	2892,-

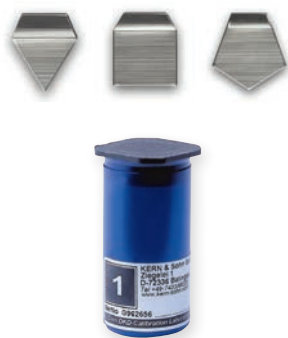
**You can create your own individual weight set yourself:**

It contains only the weights which you need for testing purposes. KERN will customise your own personal box out of plastic, wood or aluminium. For more details on this, please see page 181

Class F2 • Milligram weights, flat polygonal sheet, aluminium/German silver

Test weight material: Aluminium 1 mg – 5 mg/German silver 10 mg – 500 mg

Container material: Lined plastic



Milligram weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
338-01	1 mg	0,06	10,-		347-009-400	2,-		962-451	18,-			30,-
338-02	2 mg	0,06	10,-		347-009-400	2,-		962-452	18,-			30,-
338-03	5 mg	0,06	10,-		347-009-400	2,-		962-453	18,-			30,-
338-04	10 mg	0,08	10,-		347-009-400	2,-		962-454	18,-			30,-
338-05	20 mg	0,10	10,-		347-009-400	2,-		962-455	18,-			30,-
338-06	50 mg	0,12	10,-		347-009-400	2,-		962-456	18,-			30,-
338-07	100 mg	0,16	10,-		347-009-400	2,-		962-457	18,-			30,-
338-08	200 mg	0,20	10,-		347-009-400	2,-		962-458	18,-			30,-
338-09	500 mg	0,25	10,-		347-009-400	2,-		962-459	18,-			30,-

Class F2 • Individual weights, cylindrical shape, finely turned stainless steel

Test weight material: finely turned stainless steel

Container material: Lined plastic or wooden box (337-150-200 and 337-160-200)



Individual weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
337-01	1 g	0,3	19,-		347-030-400	2,-		962-431	18,-			39,-
337-02	2 g	0,4	20,-		347-030-400	2,-		962-432	18,-			40,-
337-03	5 g	0,5	22,-		347-030-400	2,-		962-433	18,-			42,-
337-04	10 g	0,6	24,-		347-050-400	2,-		962-434	18,-			44,-
337-05	20 g	0,8	26,-		347-050-400	2,-		962-435	18,-			46,-
337-06	50 g	1,0	28,-		347-070-400	2,-		962-436	18,-			48,-
337-07	100 g	1,6	32,-		347-070-400	2,-		962-437	20,-			54,-
337-08	200 g	3,0	42,-		347-080-400	2,-		962-438	20,-			64,-
337-09	500 g	8,0	60,-		347-090-400	3,-		962-439	20,-			83,-
337-11	1 kg	16	84,-		347-110-400	3,-		962-441	20,-			107,-
337-12	2 kg	30	129,-		347-120-400	3,-		962-442	25,-			157,-
337-13	5 kg	80	220,-		347-130-400	9,-		962-443	25,-			254,-
337-14	10 kg	160	415,-		347-140-400	9,-		962-444	25,-			449,-
337-15	20 kg	300	710,-		337-150-200	220,-		962-445	28,-			958,-
337-16	50 kg	800	1290,-		337-160-200	345,-		962-446	39,-			1674,-

Alternative to plastic container:

Wooden boxes for individual weights. For more details on this, please see page 180

Class F2 • Test weights, stainless steel, stackable

Test weight material: finely turned stainless steel

Box material: Wood



Test weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	Dimens. Ø × H	€	KERN	€		KERN	€		KERN	€
337-141	10 kg	160	137×132 mm	550,-	337-141-200	190,-		962-444	25,-			765,-
337-151	20 kg	300	137×217 mm	670,-	337-151-200	235,-		962-445	28,-			933,-
337-161	50 kg	800	198×250 mm	1790,-	337-161-200	345,-		962-446	39,-			2174,-

Class F2 • Weight sets, cylindrical shape, finely turned stainless steel

Test weight material: Individual weights - finely turned stainless steel,
milligram weights - aluminium 1 mg – 5 mg/German silver 10 mg – 500 mg
Case material: Lined plastic. Milligram weights 1 mg – 500 mg in plastic box



Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
338-22	1 mg – 500 mg	143,-		962-450	100,-			243,-
333-024	1 mg – 50 g	365,-		962-401	167,-			532,-
333-034	1 mg – 100 g	405,-		962-402	178,-			583,-
333-044	1 mg – 200 g	495,-		962-403	199,-			694,-
333-054	1 mg – 500 g	570,-		962-404	210,-			780,-
333-064	1 mg – 1 kg	690,-		962-405	220,-			910,-
333-074	1 mg – 2 kg	970,-		962-406	250,-			1220,-
333-084	1 mg – 5 kg	1250,-		962-407	265,-			1515,-
334-024	1 g – 50 g	225,-		962-415	67,-			292,-
334-034	1 g – 100 g	265,-		962-416	77,-			342,-
334-044	1 g – 200 g	360,-		962-417	98,-			458,-
334-054	1 g – 500 g	425,-		962-418	109,-			534,-
334-064	1 g – 1 kg	560,-		962-419	119,-			679,-
334-074	1 g – 2 kg	850,-		962-420	151,-			1001,-
334-084	1 g – 5 kg	1120,-		962-421	166,-			1286,-

Class F2 • Weight sets, cylindrical shape, finely turned stainless steel

Test weight material: Individual weights - finely turned stainless steel,
milligram weights - aluminium 1 mg – 5 mg/German silver 10 mg – 500 mg
Case material: Wood. Milligram weights 1 mg – 500 mg in plastic box



Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
338-22	1 mg – 500 mg	143,-		962-450	100,-			243,-
333-02	1 mg – 50 g	365,-		962-401	167,-			532,-
333-03	1 mg – 100 g	405,-		962-402	178,-			583,-
333-04	1 mg – 200 g	495,-		962-403	199,-			694,-
333-05	1 mg – 500 g	570,-		962-404	210,-			780,-
333-06	1 mg – 1 kg	690,-		962-405	220,-			910,-
333-07	1 mg – 2 kg	970,-		962-406	250,-			1220,-
333-08	1 mg – 5 kg	1250,-		962-407	265,-			1515,-
333-09	1 mg – 10 kg	1750,-		962-408	285,-			2035,-
334-02	1 g – 50 g	225,-		962-415	67,-			292,-
334-03	1 g – 100 g	265,-		962-416	77,-			342,-
334-04	1 g – 200 g	360,-		962-417	98,-			458,-
334-05	1 g – 500 g	425,-		962-418	109,-			534,-
334-06	1 g – 1 kg	560,-		962-419	119,-			679,-
334-07	1 g – 2 kg	850,-		962-420	151,-			1001,-
334-08	1 g – 5 kg	1120,-		962-421	166,-			1286,-
334-09	1 g – 10 kg	1610,-		962-422	182,-			1792,-

You can create your own individual weight set yourself:

It contains only the weights which you need for testing purposes. KERN will customise your own personal box out of plastic, wood or aluminium. For more details on this, please see page 181



Class M1 • Milligram weights, flat polygonal sheet, aluminium/German silver

Test weight material: Aluminium 1 mg – 5 mg/German silver 10 mg – 500 mg

Container material: Lined plastic



Milligram weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
348-01	1 mg	0,20	4,10		347-009-400	2,-		962-651	15,-			21,10
348-02	2 mg	0,20	4,10		347-009-400	2,-		962-652	15,-			21,10
348-03	5 mg	0,20	4,10		347-009-400	2,-		962-653	15,-			21,10
348-04	10 mg	0,25	4,10		347-009-400	2,-		962-654	15,-			21,10
348-05	20 mg	0,3	4,10		347-009-400	2,-		962-655	15,-			21,10
348-06	50 mg	0,4	4,10		347-009-400	2,-		962-656	15,-			21,10
348-07	100 mg	0,5	4,10		347-009-400	2,-		962-657	15,-			21,10
348-08	200 mg	0,6	4,10		347-009-400	2,-		962-658	15,-			21,10
348-09	500 mg	0,8	4,10		347-009-400	2,-		962-659	15,-			21,10

Class M1 • Individual weights, cylindrical shape, finely turned brass or finely turned stainless steel

Test weight material: Individual weights - finely turned brass or finely turned stainless steel

Container material: Lined plastic



Individual weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
Finely turned brass												
347-41	1 g	1,0	4,10		347-030-400	2,-		962-631	15,-			21,10
347-42	2 g	1,2	4,40		347-030-400	2,-		962-632	15,-			21,40
347-43	5 g	1,6	4,80		347-030-400	2,-		962-633	15,-			21,80
347-44	10 g	2,0	5,30		347-050-400	2,-		962-634	15,-			22,30
347-45	20 g	2,5	6,30		347-050-400	2,-		962-635	15,-			23,30
347-46	50 g	3,0	7,50		347-070-400	2,-		962-636	15,-			24,50
347-47	100 g	5,0	9,50		347-070-400	2,-		962-637	16,-			27,50
347-48	200 g	10	13,-		347-080-400	2,-		962-638	16,-			31,-
347-49	500 g	25	28,-		347-090-400	3,-		962-639	16,-			47,-
347-51	1 kg	50	43,-		347-110-400	3,-		962-641	16,-			62,-
347-52	2 kg	100	77,-		347-120-400	3,-		962-642	17,-			97,-
347-53	5 kg	250	165,-		347-130-400	9,-		962-643	17,-			191,-
347-54	10 kg	500	310,-		347-140-400	9,-		962-644	17,-			336,-
Finely turned stainless steel												
347-01	1 g	1,0	4,60		347-030-400	2,-		962-631	15,-			21,60
347-02	2 g	1,2	4,90		347-030-400	2,-		962-632	15,-			21,90
347-03	5 g	1,6	5,40		347-030-400	2,-		962-633	15,-			22,40
347-04	10 g	2,0	5,80		347-050-400	2,-		962-634	15,-			22,80
347-05	20 g	2,5	6,50		347-050-400	2,-		962-635	15,-			23,50
347-06	50 g	3,0	8,20		347-070-400	2,-		962-636	15,-			25,20
347-07	100 g	5,0	11,-		347-070-400	2,-		962-637	16,-			29,-
347-08	200 g	10	16,-		347-080-400	2,-		962-638	16,-			34,-
347-09	500 g	25	34,-		347-090-400	3,-		962-639	16,-			53,-
347-11	1 kg	50	54,-		347-110-400	3,-		962-641	16,-			73,-
347-12	2 kg	100	92,-		347-120-400	3,-		962-642	17,-			112,-
347-13	5 kg	250	196,-		347-130-400	9,-		962-643	17,-			222,-
347-14	10 kg	500	385,-		347-140-400	9,-		962-644	17,-			411,-

Class M1 • Test weights, stainless steel, stackable

Test weight material: Stainless steel, finely turned

Box material: Wood



Test weight				+	Container		+	DAkkS certificate		=	Package price	
KERN	Tol ± g	Dim. Ø x H	€		KERN	€		KERN	€		KERN	€
347-141	10 kg	0,50	137×132 mm	490,-	337-141-200	190,-		962-644	17,-			697,-
347-151	20 kg	1,00	137×217 mm	590,-	337-151-200	235,-		962-645	22,-			847,-
347-161	50 kg	2,50	198×250 mm	1600,-	337-161-200	345,-		962-646	24,-			1969,-

Class M1 • Weight sets, cylindrical shape, finely turned brass or finely turned stainless steel

Test weight material: Individual weights finely turned brass or finely turned stainless steel,
milligram weights aluminium 1 mg – 5 mg/German silver 10 mg – 500 mg
Case material: Lined plastic. Milligram weights 1 mg – 500 mg in plastic box



Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
348-22	1 mg – 500 mg	69,-		962-650	63,-			132,-
Finely turned brass								
343-424	1 mg – 50 g	149,-		962-601	106,-			255,-
343-434	1 mg – 100 g	162,-		962-602	112,-			274,-
343-444	1 mg – 200 g	191,-		962-603	125,-			316,-
343-454	1 mg – 500 g	220,-		962-604	131,-			351,-
343-464	1 mg – 1 kg	340,-		962-605	137,-			477,-
343-474	1 mg – 2 kg	485,-		962-606	152,-			637,-
343-484	1 mg – 5 kg	710,-		962-607	160,-			870,-
344-424	1 g – 50 g	94,-		962-615	42,-			136,-
344-434	1 g – 100 g	100,-		962-616	49,-			149,-
344-444	1 g – 200 g	126,-		962-617	61,-			187,-
344-454	1 g – 500 g	158,-		962-618	68,-			226,-
344-464	1 g – 1 kg	280,-		962-619	74,-			354,-
344-474	1 g – 2 kg	430,-		962-620	89,-			519,-
344-484	1 g – 5 kg	650,-		962-621	96,-			746,-
Finely turned stainless steel								
343-024	1 mg – 50 g	155,-		962-601	106,-			261,-
343-034	1 mg – 100 g	170,-		962-602	112,-			282,-
343-044	1 mg – 200 g	205,-		962-603	125,-			330,-
343-054	1 mg – 500 g	245,-		962-604	131,-			376,-
343-064	1 mg – 1 kg	335,-		962-605	137,-			472,-
343-074	1 mg – 2 kg	540,-		962-606	152,-			692,-
343-084	1 mg – 5 kg	800,-		962-607	160,-			960,-
344-024	1 g – 50 g	92,-		962-615	42,-			134,-
344-034	1 g – 100 g	102,-		962-616	49,-			151,-
344-044	1 g – 200 g	139,-		962-617	61,-			200,-
344-054	1 g – 500 g	179,-		962-618	68,-			247,-
344-064	1 g – 1 kg	285,-		962-619	74,-			359,-
344-074	1 g – 2 kg	490,-		962-620	89,-			579,-
344-084	1 g – 5 kg	750,-		962-621	96,-			846,-

Class M1 • Weight sets, cylindrical shape, finely turned brass or finely turned stainless steel

Test weight material: Individual weights finely turned brass or finely turned stainless steel,
milligram weights aluminium 1 mg – 5 mg/German silver 10 mg – 500 mg
Case material: Wood. Milligram weights 1 mg – 500 mg in plastic box



Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
348-22	1 mg – 500 mg	69,-		962-650	63,-			132,-
Finely turned brass								
343-42	1 mg – 50 g	149,-		962-601	106,-			255,-
343-43	1 mg – 100 g	162,-		962-602	112,-			274,-
343-44	1 mg – 200 g	191,-		962-603	125,-			316,-
343-45	1 mg – 500 g	220,-		962-604	131,-			351,-
343-46	1 mg – 1 kg	305,-		962-605	137,-			442,-
343-47	1 mg – 2 kg	485,-		962-606	152,-			637,-
343-48	1 mg – 5 kg	710,-		962-607	160,-			870,-
343-49	1 mg – 10 kg	1090,-		962-608	167,-			1257,-
344-42	1 g – 50 g	90,-		962-615	42,-			132,-
344-43	1 g – 100 g	100,-		962-616	49,-			149,-
344-44	1 g – 200 g	126,-		962-617	61,-			187,-
344-45	1 g – 500 g	158,-		962-618	68,-			226,-
344-46	1 g – 1 kg	280,-		962-619	74,-			354,-
344-47	1 g – 2 kg	430,-		962-620	89,-			519,-
344-48	1 g – 5 kg	650,-		962-621	96,-			746,-
344-49	1 g – 10 kg	1020,-		962-622	104,-			1124,-

Continuation: **Class M1 Weight sets, cylindrical shape, finely turned brass or finely turned stainless steel**

Weight set		+	DAkkS certificate		=	Package price	
KERN	€		KERN	€		KERN	€
Finely turned stainless steel							
343-02	1 mg – 50 g	155,-	962-601	106,-			261,-
343-03	1 mg – 100g	170,-	962-602	112,-			282,-
343-04	1 mg – 200 g	205,-	962-603	125,-			330,-
343-05	1 mg – 500 g	245,-	962-604	131,-			376,-
343-06	1 mg – 1 kg	335,-	962-605	137,-			472,-
343-07	1 mg – 2 kg	540,-	962-606	152,-			692,-
343-08	1 mg – 5 kg	800,-	962-607	160,-			960,-
343-09	1 mg – 10 kg	1250,-	962-608	167,-			1417,-
344-02	1 g – 50 g	92,-	962-615	42,-			134,-
344-03	1 g – 100 g	102,-	962-616	49,-			151,-
344-04	1 g – 200 g	139,-	962-617	61,-			200,-
344-05	1 g – 500 g	179,-	962-618	68,-			247,-
344-06	1 g – 1 kg	285,-	962-619	74,-			359,-
344-07	1 g – 2 kg	490,-	962-620	89,-			579,-
344-08	1 g – 5 kg	750,-	962-621	96,-			846,-
344-09	1 g – 10 kg	1190,-	962-622	104,-			1294,-

You can create your own individual weight set yourself:

It contains only the weights which you need for testing purposes. KERN will customise your own personal box out of plastic, wood or aluminium. For more details on this, please see page 181

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,-.

We need to know the location of use and postal code.

DAkkS calibration certificate for N weights: identical to DAkkS prices for individual weights M1, additional price € 8,-.

Class M1 • Hook weights, finely turned brass

Test weight material: Finely turned brass

Container material: Lined plastic



Hook weight			+	Container		+	DAkkS certificate		=	Package price	
KERN	Tol ± mg	€		KERN	€		KERN	€		KERN	€
347-416	1 g	1,0	14,-	347-030-400	2,-		962-631	15,-			31,-
347-426	2 g	1,2	15,-	347-030-400	2,-		962-632	15,-			32,-
347-436	5 g	1,6	15,-	347-030-400	2,-		962-633	15,-			32,-
347-446	10 g	2,0	15,-	347-050-400	2,-		962-634	15,-			32,-
347-456	20 g	2,5	16,-	347-050-400	2,-		962-635	15,-			33,-
347-466	50 g	3,0	20,-	347-070-400	2,-		962-636	15,-			37,-
347-476	100 g	5	23,-	347-090-400	3,-		962-637	16,-			42,-
347-486	200 g	10	31,-	347-090-400	3,-		962-638	16,-			50,-
347-496	500 g	25	46,-	347-110-400	3,-		962-639	16,-			65,-
347-516	1 kg	50	66,-	347-120-400	3,-		962-641	16,-			85,-
347-526	2 kg	100	107,-	347-130-400	9,-		962-642	17,-			133,-
347-536	5 kg	250	200,-	347-140-400	9,-		962-643	17,-			226,-
347-546	10 kg	500	350,-	-	-		962-644	17,-			367,-

Class M1 • Slotted weights, finely turned brass

Test weight material: Finely turned brass

Container material: Lined plastic



Slotted weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
347-415	1 g	1,0	14,-		347-030-400	2,-		962-631	15,-			31,-
347-425	2 g	1,2	15,-		347-030-400	2,-		962-632	15,-			32,-
347-435	5 g	1,6	16,-		347-030-400	2,-		962-633	15,-			33,-
347-445	10 g	2,0	19,-		347-030-400	2,-		962-634	15,-			36,-
347-455	20 g	2,5	20,-		347-080-400	2,-		962-635	15,-			37,-
347-465	50 g	3,0	22,-		347-080-400	2,-		962-636	15,-			39,-
347-475	100 g	5,0	25,-		347-090-400	3,-		962-637	16,-			44,-
347-485	200 g	10	30,-		347-090-400	3,-		962-638	16,-			49,-
347-495	500 g	25	48,-		347-110-400	3,-		962-639	16,-			67,-
347-515	1 kg	50	77,-		347-130-400	9,-		962-641	16,-			102,-
347-525	2 kg	100	118,-		347-130-400	9,-		962-642	17,-			144,-
347-535	5 kg	250	215,-		347-140-400	9,-		962-643	17,-			241,-
347-545	10 kg	500	375,-		347-140-400	9,-		962-644	17,-			401,-

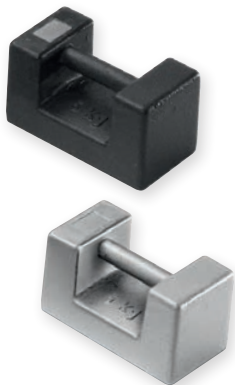
Class M1 • Beam bars, aluminium or finely turned brass, for fixing slotted weights

Beam bar material: Brass, aluminium (347-445-100)

Beam bar					+	DAkkS certificate	
KERN	Size	Largest slotted weight possible	Maximum total load ¹⁾	€		KERN	€
347-445-100*	10 g	100 g	200 g	30,-		962-634	15,-
347-475-100**	100 g	1 kg	2 kg	50,-		962-637	16,-
347-495-100***	500 g	10 kg	20 kg	79,-		962-639	16,-
347-515-100***	1000 g	10 kg	40 kg	118,-		962-641	16,-

¹⁾ is exclusive of the weight of the beam bar ("Size")**Class M1 • Block weights, lacquered cast iron/stainless steel**

Test weight material: Lacquered cast iron/stainless steel (in OIML classes F1 and F2 on request)



Block weight			+	DAkkS certificate		=	Package price	
KERN	Tol ± g	€		KERN	€		KERN	€
Lacquered cast iron								
346-86	5 kg	0,25	71,-	962-643	17,-			88,-
346-87	10 kg	0,50	95,-	962-644	17,-			112,-
346-88	20 kg	1,00	118,-	962-645	22,-			140,-
346-89	50 kg	2,50	400,-	962-646	24,-			424,-
Stainless steel								
346-06	5 kg	0,25	315,-	962-643	17,-			332,-
346-07	10 kg	0,50	455,-	962-644	17,-			472,-
346-08	20 kg	1,00	580,-	962-645	22,-			602,-
346-09	50 kg	2,50	1490,-	962-646	24,-			1514,-

Class M1 • Heavy duty weights, cast iron, stackable

Designed to be lifted with forklift trucks or cranes

Test weight material: Lacquered cast iron, delivery time is approx. 4 weeks



Heavy duty weight				+	DAkkS certificate	
KERN	Tol ± g	Dimensions W×D×H	€		KERN	€
346-81	100 kg	5	340×225×280 mm	1390,-	962-691	63,-
346-82	200 kg	10	465×340×291 mm	1800,-	962-692	63,-
346-83	500 kg	25	750×500×314 mm	3350,-	962-693	63,-
346-84	1000 kg	50	750×500×500 mm	5500,-	962-694	136,-
346-85	2000 kg	100	1000×750×500 mm	10300,-	962-695	250,-

Class M2 • Individual weights, cylindrical shape, finely turned brass

Test weight material: finely turned brass
Container material: Lined plastic



Individual weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
357-41	1 g	3	3,60		347-030-400	2,-		962-631	15,-			20,60
357-42	2 g	4	3,90		347-030-400	2,-		962-632	15,-			20,90
357-43	5 g	5	4,30		347-030-400	2,-		962-633	15,-			21,30
357-44	10 g	6	4,70		347-050-400	2,-		962-634	15,-			21,70
357-45	20 g	8	6,30		347-050-400	2,-		962-635	15,-			23,30
357-46	50 g	10	7,40		347-070-400	2,-		962-636	15,-			24,40
357-47	100 g	16	9,50		347-070-400	2,-		962-637	16,-			27,50
357-48	200 g	30	13,-		347-080-400	2,-		962-638	16,-			31,-
357-49	500 g	80	26,-		347-090-400	3,-		962-639	16,-			45,-
357-51	1 kg	160	41,-		347-110-400	3,-		962-641	16,-			60,-
357-52	2 kg	300	69,-		347-120-400	3,-		962-642	17,-			89,-
357-53	5 kg	800	149,-		347-130-400	9,-		962-643	17,-			175,-
357-54	10 kg	1600	295,-		347-140-400	9,-		962-644	17,-			321,-

Alternative to plastic container:
Wooden boxes for individual weights. For more details on this, please see page 180

Class M2 • Block weights, lacquered cast iron

Test weight material: Lacquered cast iron



Block weight			+	DAkkS certificate		=	Package price	
KERN		Tol ±g	€	KERN	€		KERN	€
356-86	5 kg	0,8	65,-	962-643	17,-			82,-
356-87	10 kg	1,6	90,-	962-644	17,-			107,-
356-88	20 kg	3,0	113,-	962-645	22,-			135,-
356-89	50 kg	8,0	390,-	962-646	24,-			414,-

Class M2 • Weight sets, cylindrical shape, finely turned brass

Test weight material: Finely turned brass
Case material: Wood



Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
354-42	1 g – 50 g	76,-		962-615	42,-			118,-
354-43	1 g – 100 g	86,-		962-616	49,-			135,-
354-44	1 g – 200 g	119,-		962-617	61,-			180,-
354-45	1 g – 500 g	153,-		962-618	68,-			221,-
354-46	1 g – 1 kg	240,-		962-619	74,-			314,-
354-47	1 g – 2 kg	390,-		962-620	89,-			479,-
354-48	1 g – 5 kg	590,-		962-621	96,-			686,-
354-49	1 g – 10 kg	940,-		962-622	104,-			1044,-

Class M3 • Individual weights, cylindrical shape, finely turned brass

Test weight material: Finely turned brass

Container material: Lined plastic



Individual weight				+	Container		+	DAkkS certificate		=	Package price	
KERN		Tol ± mg	€		KERN	€		KERN	€		KERN	€
367-41	1 g	10	3,-		347-030-400	2,-		962-631	15,-		20,-	
367-42	2 g	12	3,40		347-030-400	2,-		962-632	15,-		20,40	
367-43	5 g	16	3,80		347-030-400	2,-		962-633	15,-		20,80	
367-44	10 g	20	4,20		347-050-400	2,-		962-634	15,-		21,20	
367-45	20 g	25	5,60		347-050-400	2,-		962-635	15,-		22,60	
367-46	50 g	30	6,80		347-070-400	2,-		962-636	15,-		23,80	
367-47	100 g	50	8,90		347-070-400	2,-		962-637	16,-		26,90	
367-48	200 g	100	13,-		347-080-400	2,-		962-638	16,-		31,-	
367-49	500 g	250	25,-		347-090-400	3,-		962-639	16,-		44,-	
367-51	1 kg	500	37,-		347-110-400	3,-		962-641	16,-		56,-	
367-52	2 kg	1000	68,-		347-120-400	3,-		962-642	17,-		88,-	

Class M3 • Individual weights, cylindrical shape, lacquered cast iron

Test weight material: Lacquered cast iron



Individual weight				+	DAkkS certificate		=	Package price	
KERN		Tol ±g	€		KERN	€		KERN	€
366-91	100 g	0,05	12,-		962-637	16,-		28,-	
366-92	200 g	0,10	13,-		962-638	16,-		29,-	
366-93	500 g	0,25	19,-		962-639	16,-		35,-	
366-94	1 kg	0,50	25,-		962-641	16,-		41,-	
366-95	2 kg	1,0	44,-		962-642	17,-		61,-	
366-96	5 kg	2,5	75,-		962-643	17,-		92,-	
366-97	10 kg	5,0	135,-		962-644	17,-		152,-	

Class M3 • Block weights, lacquered cast iron

Test weight material: lacquered cast iron



Block weight				+	DAkkS certificate		=	Package price	
KERN		Tol ±g	€		KERN	€		KERN	€
366-86	5 kg	2,5	64,-		962-643	17,-		81,-	
366-87	10 kg	5,0	89,-		962-644	17,-		106,-	
366-88	20 kg	10	112,-		962-645	22,-		134,-	
366-89	50 kg	25	380,-		962-646	24,-		404,-	

Class M3 • Weight sets, cylindrical, brass and lacquered cast iron

Test weight material: Brass and lacquered cast iron

Case material: Wooden block



Weight set			+	DAkkS certificate		=	Package price	
KERN		€		KERN	€		KERN	€
362-96	1 g – 1 kg	160,-		962-619	74,-		234,-	
362-97	1 g – 2 kg	260,-		962-620	89,-		349,-	
362-98	1 g – 5 kg	350,-		962-621	96,-		446,-	
362-99	1 g – 10 kg	500,-		962-622	104,-		604,-	

Tweezers, gloves, dusting brush

**Tweezers**

to be able to safely grip small test weights

For class	For weights	KERN	Length	Version		€
E1 – F1	1 mg – 200 g	315-243	105 mm	1	Stainless steel with silicone-coated tips	15,-
E1 – F1	500 g – 2 kg	315-245	250 mm	1	Stainless steel with silicone-coated tips	32,-
F2 – M3	1 mg – 200 g	335-240	100 mm	2	Stainless steel	8,-
E1 – M3	1 mg – 200 g	315-242	100 mm	3	Plastic	6,20

**Gloves**

cotton, 1 pair. Help to protect the test weights when being used daily, from grease from fingers, damp etc.

KERN	€
317-280	2,50

**Gloves**

leather/cotton, 1 pair. Help to protect the test weights when being used daily, from grease from fingers, damp etc.

KERN	€
317-290	6,90

**Dusting brush**

to clean the weights

KERN	€
318-270	4,20

Boxes for individual weights/test weights



For weights ≤ 500 g



For weights ≥ 1 kg



For weights ≥ 10 kg

Box material: Lined wood

Suitable for individual weights

KERN-No. 307, 316, 317, 326, 327, 329

Wooden box

for individual weights E1 – F1

For weight	KERN	€
mg	338-090-200	14,-
1 g	317-010-100	28,-
2 g	317-020-100	28,-
5 g	317-030-100	28,-
10 g	317-040-100	28,-
20 g	317-050-100	28,-
50 g	317-060-100	28,-
100 g	317-070-100	28,-
200 g	317-080-100	28,-
500 g	317-090-100	31,-
1 kg	317-110-100	35,-
2 kg	317-120-100	44,-
5 kg	317-130-100	66,-
10 kg	317-140-100	89,-
20 kg	317-150-100	340,-
50 kg	317-160-100	415,-



For weights ≤ 500 g



For weights ≥ 1 kg



For weights ≥ 10 kg

Box material: Wood

Suitable for individual weights

KERN-No. 337, 347, 357, 367

Wooden box

for individual weights F2 – M3

For weight	KERN	€
mg	338-090-200	14,-
1 g	337-010-200	14,-
2 g	337-020-200	14,-
5 g	337-030-200	14,-
10 g	337-040-200	14,-
20 g	337-050-200	14,-
50 g	337-060-200	15,-
100 g	337-070-200	15,-
200 g	337-080-200	16,-
500 g	337-090-200	19,-
1 kg	337-110-200	24,-
2 kg	337-120-200	27,-
5 kg	337-130-200	47,-
10 kg	337-140-200	61,-
20 kg	337-150-200	220,-
50 kg	337-160-200	345,-

Aluminium box

for individual weights, cylindrical shape, class E1, E2, F1 and F2

Largest possible weight	KERN	€
10 kg	317-140-600	245,-
20 kg	317-150-600	275,-

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:
1 x 50 g, 2 x 100 g, 1 x 500 g, 2 x 1 kg, 1 x 2 kg.

The correct individual box is **KERN-Nr. 313-080-400** (plastic) or **KERN-Nr. 315-070-100** (wood)



Plastic case for individual weight sets classes E2 – M3, not appropriate for cast iron weights		
KERN	Largest possible weight	€
313-050-400	≤ 500 g	92,-
313-080-400	≤ 5 kg	190,-



Wooden box for individual weight sets classes E1 – F1		
KERN	Largest possible weight	€
315-040-100	≤ 200 g	129,-
315-060-100	≤ 1 kg	205,-
315-070-100	≤ 2 kg	250,-
315-080-100	≤ 5 kg	350,-
315-090-100	≤ 10 kg	465,-



Wooden box for individual weight set classes F2 – M3		
KERN	Largest possible weight	€
335-040-200	≤ 200 g	58,-
335-050-200	≤ 500 g	61,-
335-060-200	≤ 1 kg	108,-
335-070-200	≤ 2 kg	134,-
335-080-200	≤ 5 kg	210,-
335-090-200	≤ 10 kg	300,-

Plastic carrying case for standard weight sets

Aluminium case
for safe storage and transportation under harsh industrial conditions

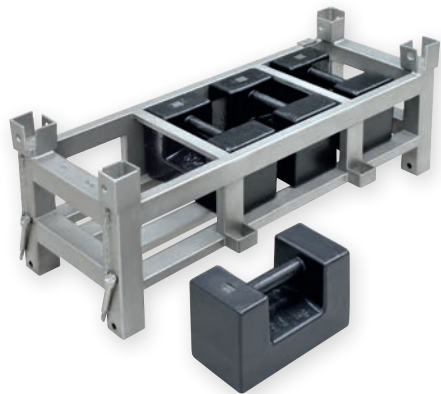


Plastic case for weight sets with standard denomination classes E2 – M3, not appropriate for cast iron weights		
KERN	Largest possible weight	€
313-052-400	≤ 500 g	55,-
313-082-400	≤ 5 kg	154,-



Aluminium case for weight sets with standard denomination classes E1 – M2		
KERN	Largest possible weight	€
313-042-600	≤ 200 g	230,-
313-062-600	≤ 1 kg	320,-
313-082-600	≤ 5 kg	390,-
313-090-600	≤ 10 kg	510,-

Weight carriers for block weights or other test weights



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:

9 block weights	each 50 kg, class M1 =	450 kg
1 weight container	each 50 kg, class M1 =	50 kg
Total		= 500 kg

DAkkS Calibration Service (DKD) and Verification service

The Deutsche Akkreditierungsstelle GmbH (DAkkS) (German accreditation body)

The Deutsche Akkreditierungsstelle GmbH (DAkkS), successor of the German Calibration Service (DKD), is responsible for measuring “correctly” in accordance with legally binding international standards. It is part of DAkkS = Deutsche Akkreditierungsstelle (German accreditation authority) which was founded in Germany. The basis is the European range of standards DIN EN ISO/IEC 17000 for conformity assessment, in particular the accreditation standard 17025, which governs the organisation of a calibration laboratory, as well as basic metrological technical requirements.

Only an accredited calibration laboratory can issue a DAkkS calibration (DKD) 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 (DKD); (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 DKD calibration laboratories for balances, test weights and force measurement in Europe.

Thanks to the high level of automation, we can carry out DAkkS calibration (DKD) 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

DAkkS calibration (DKD)

- Why?** DAkkS calibration (DKD) 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 (DKD)
- 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 (DKD) 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?** Operator control the use of checking equipment and periodic recalibration time intervals themselves

Range of services:

- DAkkS calibration (DKD) of balances with a maximum load of up to 50.000 kg
- DAkkS calibration (DKD) 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 (DKD) of force-measuring devices
- Volume determination for weights of accuracy class E1
- 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 – see page 184.



Waldemar Fleitling
Product specialist Calibration service

Tel. +49 [0] 7433 9933-163
Fax +49 [0] 7433 9933-29163
fleitling@kern-sohn.com

KERN KERN & Sohn GmbH
 Älteste europäische Feinwaagen und Gewichtfabrik seit 1844
 Oldest European Manufacturer of Precision Balances since 1844

akkreditiert durch die / accredited by the
Deutsche Akkreditierungsstelle GmbH
 als Kalibrierlaboratorium im / as calibration laboratory in
Deutschen Kalibrierdienst **DKD**

Kalibrierschein
 Calibration Certificate

Gegenstand
 Object

Präzisionswaage
 Precision Balance

Hersteller
 Manufacturer

KERN & Sohn GmbH
 Ziegeler 1
 72336 Balingen
 GERMANY
 PLJ 600-3CM

Typ
 Type

Fabrikat-/Serien-Nr.
 Serial number

123456789

Kalibrierzeichen
 Calibration mark

Sample
 D-K-
 19408-01-00
 2014-05

Dieser Kalibrierschein dokumentiert die Rückführung auf nationale Normale zur Darstellung der Einheiten in Übereinstimmung mit dem Internationalen Einheitensystem (SI). Die DAkkS ist Unterzeichner der multilateralen Übereinkommen der European co-operation for Accreditation (EA) und der International Laboratory Accreditation Cooperation (ILAC) zur gegenseitigen Anerkennung der Kalibrierscheine. Für die Einhaltung einer angemessenen Frist zur Kalibrierung ist

Messergebnisse / Measurement results

1. Wiederholbarkeit / Repeatability

Messung Measuring	Prüflast Load	Waagenanzeige Indication
No. 1	500 g	499,999 g
No. 2	500 g	499,999 g
No. 3	500 g	500,000 g
No. 4	500 g	500,000 g
No. 5	500 g	500,000 g

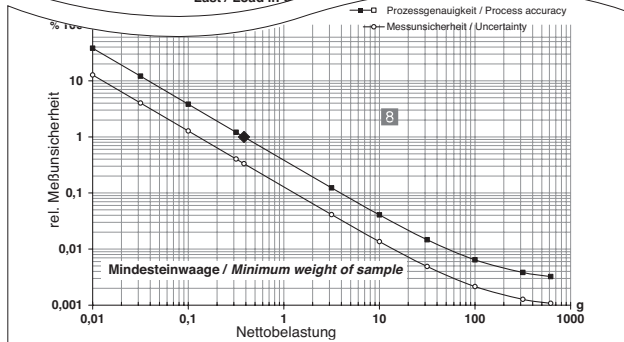
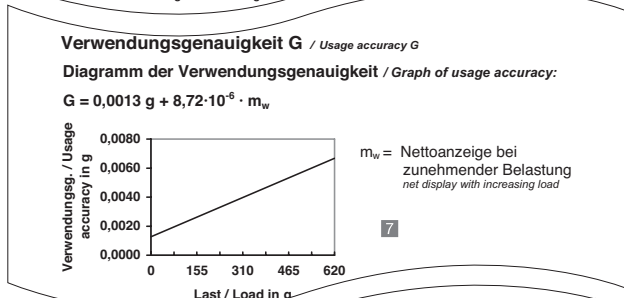
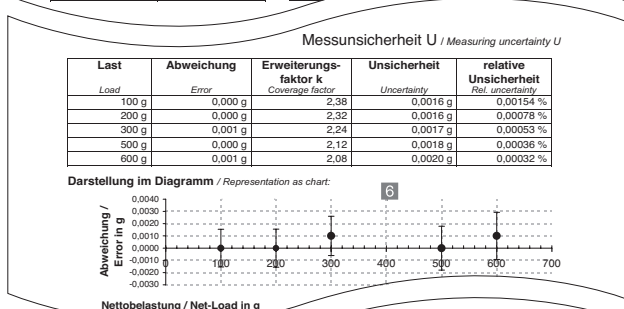
Standardabweichung: $s = 0,0006$
 Standard deviation:

2. Richtigkeit / Linearity

Prüflast Load	Waagenanzeige Indication
100 g	100,000 g
200 g	200,000 g
300 g	300,001 g
500 g	500,000 g
600 g	600,001 g

3. Außermittige Belastung / Eccentricity

Position Position	Prüflast Load	Waagenanzeige Indication
No. 1	500 g	500,000 g
No. 2	500 g	499,999 g
No. 3	500 g	500,001 g
No. 4	500 g	500,001 g
No. 5	500 g	500,001 g



DAkkS calibration certificate for balances (extract)

- 1 Official document
 2 Item to be calibrated
 3 Traceability, see page 193

- 4 Identification/Applicant
 5 Metrological component
 6 Measuring uncertainty, see page 192

- 7 Usage accuracy, see page 193
 8 Minimum weight of sample (additional price)

To get reliable weighing results you need to have calibrated balances. KERN offers you an extensive calibration service for your balances - you have the choice:

KERN in-house calibration

You send your balance to us.

Recommendable with new equipment and for balances which can be transported economically, as the travel costs for on-site calibration are then not applied. On request, we can also provide a pick-up and collection service with our parcel service

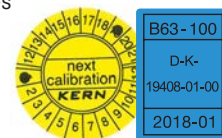
KERN on-site calibration

We visit you

For further details see page 184.

Recalibration

- The recalibration schedule depends on the frequency of use, the conditions of use and the safety requirements.
- We would recommend that you recalibrate your balances every 6 months if they are used intensively, and every 12 months with normal use.
- The KERN calibration service is independent of the brand.



Initial calibration and recalibration of balance at the KERN factory	KERN	Price excl. of VAT ex works €
Weighing range		
Analytical balances		
[Max] ≤ 5 kg	963-101	138,-
[Max] > 5 kg	963-102	176,-
Precision balances/Industrial scales		
[Max] ≤ 5 kg	963-127	72,-
[Max] > 5 kg – 50 kg	963-128	88,-
[Max] > 50 kg – 350 kg	963-129	105,-
[Max] > 350 kg – 1500 kg	963-130	165,-
[Max] > 1500 kg – 2900 kg ¹⁾	963-131	220,-
[Max] > 2900 kg – 6000 kg ¹⁾	963-132	440,-
[Max] > 6000 kg – 12000 kg ¹⁾	963-133	500,-
Hanging scales/Crane scales		
[Max] ≤ 5 kg	963-127H	72,-
[Max] > 5 kg – 50 kg	963-128H	88,-
[Max] > 50 kg – 350 kg	963-129H	105,-
[Max] > 350 kg – 1500 kg	963-130H	165,-
[Max] > 1500 kg – 2900 kg	963-131H	250,-
[Max] > 2900 kg – 6000 kg	963-132H	500,-
[Max] > 6000 kg – 12000 kg ³⁾	963-133H	700,-
Preparation for recalibration (cleaning, adjustment, function test)	969-003R	20,-
Additional services		
Minimum weight of sample (for details see internet)	969-103	10,-
DAkkS Express service with delivery time 48 hours (only on initial purchase, details see p. 187)	962-116	50,- / scale
Express shipping: Express supplement for guaranteed delivery on the next working day (if ready for shipment before 12:00 noon)	in GER only	40,- / parcel

¹⁾ Floor scales & axle load scales only (Price per weighing panel). Please ask for further details.

²⁾ On request

³⁾ Processing time 4 working days

⁴⁾ Processing time 15 working days

Note: KERN on-site calibration

Why not have your balances calibrated on site – it's so easy!

As well as KERN in-house calibration, which is carried out at the KERN factory, we can also offer to calibrate your electronic balances (independent of the brand) at your premises.

In Germany, KERN has a close-knit network of KERN DKD calibration laboratory employees, who can come to your premises and carry out on-site calibration of balances up to 50 tonnes.

This on-site testing service is metrologically recommended, as your balances are in their field of use and can be calibrated without any possible transportation problems. Lower downtime as well as personal contact with our expert are the major benefits of this service. This KERN calibration service is also independent of the brand.



What are the advantages of on-site calibration?

- Calibration in your field of use
- Low downtime
- Reduces measuring uncertainty and guarantees strict compliance with EC Guideline EURAMET/cg-18 in terms of process accuracy
- Cross-brand servicing, basic inspection and adjustment by a specialist
- No transportation risks
- Device training for your qualified users
- Preparation for verification
- We will take your preferred date into account

Info flyer for on-site calibration, available on kern-lab.com

Note: KERN Certificate of conformity

With a certificate of conformity you get a statement about whether the balance meets your defined requirements. In conjunction with a DAkkS calibration certificate 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:

KERN	Conformity evaluation on the basis of the:
969-511	Usage accuracy as an appendix to the DAkkS calibration certificate (relative)
969-512	Usage accuracy as an appendix to the DAkkS calibration certificate (absolute)
969-513	Calibration results as an appendix to the DAkkS calibration certificate (relative)
969-514	Calibration results as an appendix to the DAkkS calibration certificate (absolute)
969-515	Measurements as manufacturer or customer specification (third-party manufacturer)
969-517	Measurements as manufacturer or customer specification (KERN balances)
969-516	Measurements as manufacturer or customer specification
! All prices on request	



Note: KERN adjustment at the location of installation

KERN will adjust your balance to the individual location of installation!

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
- You do not need any additional weights
- The balance is ready for immediate use

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.



KERN	Weighing range	Price excl. of VAT ex works €
961-247	[Max] ≤ 5 kg	36,-
961-248	[Max] > 5 kg-50 kg	44,-
961-249	[Max] > 50 kg-350 kg	52,-
961-250	[Max] > 350 kg-1500 kg	83,-
961-251	[Max] > 1500 kg-2900 kg	110,-
961-252	[Max] > 2900 kg-6000 kg	220,-
961-253	[Max] > 6000 kg-12000 kg	250,-

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

- ➊ You will receive a **reminder** that your test equipment is due or you will generate a quotation for new or existing test equipment
- ➋ Submission or collection of your test equipment
- ➌ Initial inspection of your goods, to check that they are suitable for calibration, and are complete, etc.
- ➍ You will get a detailed order confirmation
- ➎ Our experts will carry out initial calibration
- ➏ Checked for conformity with required tolerances and if required, any necessary actions which arise from this are carried out
- ➐ Before these actions are carried out, we will contact you (in so far as no individual processing has been agreed with you beforehand)
- ➑ After your approval the necessary actions will be implemented and the calibration will be completed
- ➒ After that your test equipment will be returned without delay, together with the appropriate calibration certificates
- ➓ We will monitor your recalibration periods and will send you, free of charge, a reminder about your next calibration

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 depend on us to support you, and we will remind you in good time, free of charge, when the next recalibration is due. In addition, you have the option of managing your test equipment yourself online (cf. ➊, ➓).

► 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. ➊).

► Collection service

We will be pleased to arrange for our shipping company to pick up the goods from your premises. Simply tell us the weight and dimensions of your package and leave the rest to us (cf. ➋).

► 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. ➍, ➎).

► 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. ➐).

► Express service and dispatch

If you need a particularly fast service, you can use your DAkkS express service. You will receive your test equipment after just 2 days (cf. ➒).

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

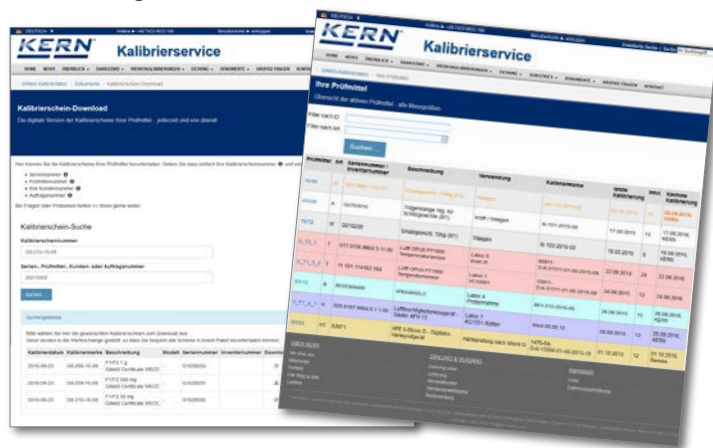
Information on your test equipment which has been calibrated by us is stored in our database. In this way it is possible to make trend calculations. You will therefore get an overview of the long-term stability and trend behaviour of your test equipment and the necessary recalibration period can easily be determined and specified.

Paperless documentation

So that 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, for example, in paper form? Of course this is not a problem either. We will send you everything you require by post.

Calibration certificate download

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 need to look for your certificates again.




Recalibration price of test weights (DAkkS calibration)

Class acc. →	E1 with volume determination		E1 without volume determination		E2		F1/F2 * F2 only		M1/M2/M3	
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	KERN	Price € excl. of VAT ex works
1 mg	-	-	962-251R	52,-	962-351R	26,-	962-451R	18,-	962-651R	15,-
2 mg	-	-	962-252R	52,-	962-352R	26,-	962-452R	18,-	962-652R	15,-
5 mg	-	-	962-253R	52,-	962-353R	26,-	962-453R	18,-	962-653R	15,-
10 mg	-	-	962-254R	52,-	962-354R	26,-	962-454R	18,-	962-654R	15,-
20 mg	-	-	962-255R	52,-	962-355R	26,-	962-455R	18,-	962-655R	15,-
50 mg	-	-	962-256R	52,-	962-356R	26,-	962-456R	18,-	962-656R	15,-
100 mg	-	-	962-257R	52,-	962-357R	26,-	962-457R	18,-	962-657R	15,-
200 mg	-	-	962-258R	52,-	962-358R	26,-	962-458R	18,-	962-658R	15,-
500 mg	-	-	962-259R	52,-	962-359R	26,-	962-459R	18,-	962-659R	15,-
1 g	963-231	193,-	962-231R	52,-	962-331R	26,-	962-431R	18,-	962-631R	15,-
2 g	963-232	193,-	962-232R	52,-	962-332R	26,-	962-432R	18,-	962-632R	15,-
5 g	963-233	193,-	962-233R	52,-	962-333R	26,-	962-433R	18,-	962-633R	15,-
10 g	963-234	193,-	962-234R	52,-	962-334R	26,-	962-434R	18,-	962-634R	15,-
20 g	963-235	193,-	962-235R	52,-	962-335R	26,-	962-435R	18,-	962-635R	15,-
50 g	963-236	193,-	962-236R	52,-	962-336R	26,-	962-436R	18,-	962-636R	15,-
100 g	963-237	193,-	962-237R	52,-	962-337R	33,-	962-437R	20,-	962-637R	16,-
200 g	963-238	193,-	962-238R	52,-	962-338R	33,-	962-438R	20,-	962-638R	16,-
500 g	963-239	193,-	962-239R	52,-	962-339R	33,-	962-439R	20,-	962-639R	16,-
1 kg	963-241	193,-	962-241R	52,-	962-341R	33,-	962-441R	20,-	962-641R	16,-
2 kg	963-242	465,-	962-242R	64,-	962-342R	41,-	962-442R	25,-	962-642R	17,-
5 kg	963-243	465,-	962-243R	64,-	962-343R	41,-	962-443R	25,-	962-643R	17,-
10 kg	963-244	465,-	962-244R	64,-	962-344R	41,-	962-444R	25,-	962-644R	17,-
20 kg	963-245	1160,-	962-245R	590,-	962-345R	52,-	962-445R	28,-	962-645R	22,-
50 kg	963-246	1360,-	962-246R	660,-	962-346R	64,-	962-446R	39,-	962-646R	24,-
100 kg	-	-	-	-	-	-	962-591R*	116,-	962-691R	63,-
200 kg	-	-	-	-	-	-	962-592R*	116,-	962-692R	63,-
500 kg	-	-	-	-	-	-	962-593R*	116,-	962-693R	63,-
1000 kg	-	-	-	-	-	-	-	-	962-694R	136,-
2000 kg	-	-	-	-	-	-	-	-	962-695R	250,-
1 mg-500 mg	-	-	962-250R	350,-	962-350R	190,-	962-450R	100,-	962-650R	63,-
1 mg-50 g	963-201	1070,-	962-201R	560,-	962-301R	315,-	962-401R	167,-	962-601R	106,-
1 mg-100 g	963-202	1170,-	962-202R	580,-	962-302R	340,-	962-402R	178,-	962-602R	112,-
1 mg-200 g	963-203	1350,-	962-203R	630,-	962-303R	385,-	962-403R	199,-	962-603R	125,-
1 mg-500 g	963-204	1440,-	962-204R	660,-	962-304R	410,-	962-404R	210,-	962-604R	131,-
1 mg-1 kg	963-205	1530,-	962-205R	700,-	962-305R	435,-	962-405R	220,-	962-605R	137,-
1 mg-2 kg	963-206	2000,-	962-206R	750,-	962-306R	495,-	962-406R	250,-	962-606R	152,-
1 mg-5 kg	963-207	2450,-	962-207R	770,-	962-307R	530,-	962-407R	265,-	962-607R	160,-
1 mg-10 kg	963-208	2900,-	962-208R	800,-	962-308R	560,-	962-408R	285,-	962-608R	167,-
1 g-50 g	963-215	770,-	962-215R	245,-	962-315R	127,-	962-415R	67,-	962-615R	42,-
1 g-100 g	963-216	860,-	962-216R	270,-	962-316R	150,-	962-416R	77,-	962-616R	49,-
1 g-200 g	963-217	1040,-	962-217R	320,-	962-317R	196,-	962-417R	98,-	962-617R	61,-
1 g-500 g	963-218	1130,-	962-218R	350,-	962-318R	220,-	962-418R	109,-	962-618R	68,-
1 g-1 kg	963-219	1230,-	962-219R	375,-	962-319R	245,-	962-419R	119,-	962-619R	74,-
1 g-2 kg	963-220	1780,-	962-220R	425,-	962-320R	305,-	962-420R	151,-	962-620R	89,-
1 g-5 kg	963-221	2230,-	962-221R	450,-	962-321R	340,-	962-421R	166,-	962-621R	96,-
1 g-10 kg	963-222	2690,-	962-222R	485,-	962-322R	370,-	962-422R	182,-	962-622R	104,-

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	3,-
Weight set	969-002R	16,-
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	12,-
Second calibration after adjustment or substitution, per weight		
Class E1	969-210R	40,-
Class E1 incl. volume determination	969-211R	80,-
Class E2	969-310R	14,-
Class F1/F2	969-410R	14,-
Class M1-M3	969-610R	14,-
Testing of magnetic properties according to OIML R111:2004, per weight	972-000	12,-
Calibration of NON-OIML test weights, additional price per weight	-	8,-

KERN DAkkS Express Service	
DAkkS standard service Class E2-M3	4 working days
DAkkS 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

	DAkkS Express service in 48 hours except for class E1
<ul style="list-style-type: none"> 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 DAkkS Express Service, for each KERN test weight KERN KERN 962-115 € 20,- For Express shipping, see page 183 	

Verification prices for test weights and (crane) scales

Class acc. → OIML R 111:2004	E2 with verification certificate		F1/F2 with verification certificate		M1 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	40,-	952-451	35,-	952-651	24,-
2 mg	952-352	40,-	952-452	35,-	952-652	24,-
5 mg	952-353	40,-	952-453	35,-	952-653	24,-
10 mg	952-354	40,-	952-454	35,-	952-654	24,-
20 mg	952-355	40,-	952-455	35,-	952-655	24,-
50 mg	952-356	40,-	952-456	35,-	952-656	24,-
100 mg	952-357	40,-	952-457	35,-	952-657	24,-
200 mg	952-358	40,-	952-458	35,-	952-658	24,-
500 mg	952-359	40,-	952-459	35,-	952-659	24,-
1 g	952-331	40,-	952-431	35,-	952-631	24,-
2 g	952-332	40,-	952-432	35,-	952-632	24,-
5 g	952-333	40,-	952-433	35,-	952-633	24,-
10 g	952-334	40,-	952-434	35,-	952-634	24,-
20 g	952-335	40,-	952-435	35,-	952-635	24,-
50 g	952-336	40,-	952-436	35,-	952-636	24,-
100 g	952-337	45,-	952-437	35,-	952-637	24,-
200 g	952-338	45,-	952-438	36,-	952-638	24,-
500 g	952-339	45,-	952-439	36,-	952-639	24,-
1 kg	952-341	45,-	952-441	36,-	952-641	24,-
2 kg	952-342	51,-	952-442	40,-	952-642	25,-
5 kg	952-343	51,-	952-443	40,-	952-643	25,-
10 kg	952-344	51,-	952-444	40,-	952-644	32,-
20 kg	952-345	59,-	952-445	42,-	952-645	36,-
50 kg	952-346	67,-	952-446	50,-	952-646	37,-
1 mg-500 mg	952-350	200,-	952-450	105,-	952-650	66,-
1 mg-50 g	952-301	330,-	952-401	175,-	952-601	111,-
1 mg-100 g	952-302	360,-	952-402	187,-	952-602	117,-
1 mg-200 g	952-303	405,-	952-403	210,-	952-603	131,-
1 mg-500 g	952-304	430,-	952-404	220,-	952-604	137,-
1 mg-1 kg	952-305	455,-	952-405	230,-	952-605	144,-
1 mg-2 kg	952-306	520,-	952-406	260,-	952-606	159,-
1 mg-5 kg	952-307	560,-	952-407	280,-	952-607	168,-
1 mg-10 kg	952-308	590,-	952-408	300,-	952-608	175,-
1 g-50 g	952-315	133,-	952-415	76,-	952-615	50,-
1 g-100 g	952-316	157,-	952-416	81,-	952-616	54,-
1 g-200 g	952-317	205,-	952-417	103,-	952-617	64,-
1 g-500 g	952-318	235,-	952-418	114,-	952-618	71,-
1 g-1 kg	952-319	255,-	952-419	125,-	952-619	78,-
1 g-2 kg	952-320	320,-	952-420	158,-	952-620	93,-
1 g-5 kg	952-321	355,-	952-421	174,-	952-621	101,-
1 g-10 kg	952-322	390,-	952-422	191,-	952-622	109,-

KERN verification delivery time	
Standard verification service Class E2 – M1	6 working days

Additional costs for preparation, overhaul and adjustment before the verification	KERN	Price excl. of VAT ex works €
Preparation of weights (e.g. cleaning, etc.)		
Single weight	969-008R	3,-
Weight set	969-009R	16,-
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
Adjustment, per weight only available for weights with adjustment chamber (F1/F2 – M1)	969-010R	12,-
Verification after adjustment or substitution, per weight		
Class E2	969-310R	14,-
Class F1/F2	969-410R	14,-
Class M1	969-610R	14,-

Verification prices for balances	Initial verification	Price excl. of VAT ex works €	Reverification	Price excl. of VAT ex works €
KERN	KERN			
Accuracy class I (precision balances) ¹⁾				
[Max] ≤ 5 kg ¹⁾	965-201	110,-	950-101R	180,-
[Max] > 5 kg ¹⁾	965-202	110,-	950-102R	230,-
Accuracy class II (precision balances) ¹⁾				
[Max] ≤ 5 kg ¹⁾	965-216	66,-	950-116R	90,-
[Max] > 5 kg – 50 kg ¹⁾	965-217	77,-	950-117R	110,-
[Max] > 50 kg – 350 kg ¹⁾	965-218	110,-	950-118R	170,-
Accuracy class III-IV ¹⁾				
Bench scales and industrial scales (excl. crane scales)				
[Max] ≤ 5 kg ¹⁾	965-227	55,-	950-127R	86,-
[Max] > 5 kg – 50 kg ¹⁾	965-228	70,-	950-128R	86,-
[Max] > 50 kg – 350 kg ¹⁾	965-229	93,-	950-129R	138,-
[Max] > 350 kg – 1500 kg ¹⁾	965-230	132,-	950-130R	200,-
[Max] > 1500 kg – 2900 kg ¹⁾	965-231	132,-	950-131R	280,-
[Max] > 2900 kg – 6000 kg ¹⁾	965-232	200,-	950-132R	430,-
Crane scales				
[Max] > 50 kg – 350 kg ¹⁾	950-129H	150,-	950-129HR	150,-
[Max] > 350 kg – 1500 kg ¹⁾	950-130H	200,-	950-130HR	250,-
[Max] > 1500 kg – 2900 kg ¹⁾	950-131H	270,-	950-131HR	360,-
[Max] > 2900 kg – 6000 kg ¹⁾	950-132H	500,-	950-132HR	550,-
[Max] > 6000 kg – 12000 kg ¹⁾	950-133H	700,-	950-133HR	870,-

¹⁾ Processing time 4 working days, ²⁾ Processing time 15 working days, ¹⁾²⁾ Preparation of reverification of balances, 969-006R, € 20,-

Prices for DAkkS and factory calibration for force gauges

Measure value	Measuring range	Initial calibration and Recalibration	Price excl. of VAT ex works €
KERN			
DAkkS calibration			
Tensile force	10 N – 500 N	963-161	135,-
Tensile force	> 500 N – 2 kN	963-162	165,-
Tensile force	> 2 kN – 5 kN	963-163	225,-
Compression force	10 N – 500 N	963-261	135,-
Compression force	> 500 N – 2 kN	963-262	165,-
Compression force	> 2 kN – 5 kN	963-263	225,-
Tensile & Compression force	10 N – 500 N	963-361	245,-
Tensile & Compression force	> 500 N – 2 kN	963-362	300,-
Tensile & Compression force	> 2 kN – 5 kN	963-363	405,-
Factory calibration			
Tensile force	0,4 N – 500 N	961-161	135,-
Tensile force	≤ 2.000 N	961-162	165,-
Tensile force	≤ 5.000 N	961-163	225,-
Tensile force	≤ 20.000 N	961-164	350,-
Tensile force	≤ 50.000 N	961-165	520,-
Tensile force	≤ 100.000 N	961-166	940,-
Compression force	2 N – 500 N	961-261	135,-
Compression force	≤ 2.000 N	961-262	165,-
Tensile & Compression force	≤ 5.000 N	961-263	225,-
Tensile & Compression force	2 N – 500 N	961-361	245,-
Tensile & Compression force	≤ 2.000 N	961-362	300,-
Tensile & Compression force	≤ 5.000 N	961-363	405,-

Mechanical hanging scales	Initial calibration	Recalibration	Price excl. of VAT ex works €
	KERN	KERN	
Mechanical hanging scales (spring scales) [Max] ≤ 5 kg	961-100	961-100R	72,-
Mechanical hanging scales [Max] > 5 kg – 50 kg	961-101	961-101R	88,-
Mechanical hanging scales [Max] > 50 kg – 350 kg	961-102	961-102R	105,-
Mechanical hanging scales [Max] > 350 kg – 1500 kg	961-103	961-103R	165,-
Mechanical hanging scales [Max] > 1500 kg – 3000 kg	961-104	961-104R	220,-
Mechanical hanging scales [Max] > 3000 kg – 6000 kg	961-105	961-105R	440,-
Mechanical hanging scales [Max] > 6000 kg – 12000 kg	961-106	961-106R	500,-

Measuring instruments	Initial calibration	Recalibration	Price excl. of VAT ex works €
	KERN	KERN	
Hardness testing devices in accordance with Leeb tests (Type D)	961-131	961-131R	120,-
Coating thickness gauges 0 µm – 2000 µm (Ferro or NonFerro)	961-110	961-110R	120,-
Coating thickness gauges 0 µm – 2000 µm (Ferro and NonFerro)	961-112	961-112R	170,-
Ultrasonic material thickness testing devices 25 mm – 300 mm	961-113	961-113R	120,-
Calibration of torque wrench testing devices 2 directions of [Max] 1 Nm to 200 Nm	961-120	961-120R	170,-
Calibration of hardness testing devices in accordance with UCI	961-270	961-270R	260,-
Temperature calibration certificate moisture analysers	964-305	964-305R	140,-



Your advantages:

Universal use ► Calibration possible for a variety of instruments shown in catalogue

Quick calibration ► Test time is four working days only in the calibration laboratory

Express service ► Test time duration 48 hours: additional price **€ 50,-**/instrument (excl. of VAT)

Express shipping ► guaranteed delivery on the next working day (only in Germany): **€ 40,-**/parcel (excl. of VAT)



A**Accuracy classes for test weights**E, 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. See also 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 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 weighing 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).

- Density determination of liquids: By means of measuring the buoyancy with a glass plummet with known volume immersed in the liquid to be measured
- Density determination of solid bodies: The density is the ratio of weight [g] : Volume [cm³]. The weight is derived by weighing the sample in air. The volume is determined from the buoyancy $A = \text{weight loss in [g] of a sample, which is submerged in a liquid. The density } D [\text{g/cm}^3] \text{ of this liquid must be known. The volume [cm}^3] \text{ is a result of } A : D.$

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
- Density of porous materials

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 ≤ 1 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.

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.

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 08 "Counting balances/ Counting systems".

P**Percentage determination**

Example: Reference weight prior to drying: 50g = balance display 100%. After drying 40g = 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 08 "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 6000g, Tare (= container) 470g, available weighing range 5530g.

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:

- in commercial trade when the price of a commodity is determined by weighing.
- in the manufacture of pharmaceuticals in pharmacies and analysis in pharmaceutical and medical laboratories.
- for official purposes.
- in the production of prepackaging.
- 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.

Sales conditions



All prices are valid as of January 1st 2018 until a new version of the KERN catalogue is released. In Europe, all prices do not include the applicable V.A.T.

At KERN there is no minimum order value. For orders less than € 15.00 there is no re-sale discount available.

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, Martin Sauter.
For the full Terms and Conditions, please refer to the website.
www.kern-sohn.com/en/kern/agbs.html

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 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 € 400.00
 - 2 years for components as well as products with list price $<$ € 400.00
 - 1 year for pallet truck scales
- Does not apply to consumables such as batteries, rechargeable battery packs, etc.

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 the 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 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, larger quantities on request.

On demand, your company logo and address can be printed on the back of the KERN catalogue free of charge, larger quantities on request. In this way you have got your own individual marketing tool.

The KERN catalogue and branch prospectuses are available in the following languages: DE, GB, FR, IT, ES.

For further details, see page 2.

Important notice



Explosion hazard or humidity

With the exception of the specially labelled models (ATEX), our balances 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.

See the glossary, page 191 ► **Adjusting**