EN

KERN

BALANCES
& TEST SERVICE

Laboratory | Industry | Food Industry



2026

PROFESSIONAL MEASURING
SINCE 1844

It’s so easy to order from KERN:

Tel. +49 7433 9933-0

E-Mail
info@kern-sohn.com

Online Shop
www.kern-sohn.com

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

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

Online Shop www.kern-sohn.com

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

Advice from the experts

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

100 % product availability and dispatch service

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

Warranty

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

Customer service

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

Trust through experience

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

Accreditations/certification

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

DAkkS-accredited calibrations

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

Verification service

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

Individual customer solutions

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

Service Portal

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

Spare parts and repair service

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

No storage costs

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

Still got questions?

You can find all KERN Service Hotlines on page 5.

KERN Pictograms

Internal adjustment
Quick setting up of the balance's accuracy with internal adjusting weight

External adjustment
Quick setting up of the balance's accuracy with external adjusting weight

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

Memory
Device memory capacity, e.g. for article data, measuring data, tare weights, PLU etc.

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

Data interface RS-232
To connect the device to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible

Data interface RS-48
To connect the device to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible

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

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

Bluetooth* data interface
To transfer data to a printer, PC or other peripherals

WiFi data interface
To transfer data to a printer, PC or other peripherals

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

User Management
The measuring device enables the creation of passwordprotected user profiles with different authorisation levels

Statistics
sing the saved values, the device calculates statistical data, such as average value, standard deviation etc.

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

PC Software
to transfer the measurements from the device to a PC

Network interface
For connecting the measuring device to an Ethernet network

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

GLP/ISO log internal
The measuring device generates a GLP-compliant printout, independent of a printer connection

Value & Time
The measuring device outputs the value, date and time, regardless of the connected printer

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

Net-Total
The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out

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

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

Density Determination
The density of liquids and solids with a density of ≤/≥ 1 is determined directly in the measuring device

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

Units
Can be switched to e.g. nonmetric units. For further details see website

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

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

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

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

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

Rechargeable battery pack
Rechargeable set

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

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

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

Weighing principle Strain Gauges
Electrical resistor on an elastic deforming body

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

Weighing principle Electromagnetic Force Compensation
Coil inside a permanent magnet. For the most accurate weighings

Weighing principle Single-Cell Technology
Advanced version of the force compensation principle with the highest level of precision

Conformity assessment
The time required for conformity assessment is 3 working days

Accredited calibration (DKD)
The time required for accredited calibration is 3 working days

Factory calibration (ISO)
The time required for factory calibration is 4 working days

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

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

*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.

KERN Models A-Z

572 29

A

ABP 44-45
ABP-A 46
ACJ /ACS 42
ADB /ADJ 39
ADS /ADT 43
ALS-A /ALJ-A 40-41

B

BFC 110-111
BIC 107
BID 108-109
BXC 112

C

CB Q1 / CB Q2 / CB P1 144
CCA 82-83
CCS 84-85
CDS 80
CE Hx 123
CFS 77
CH 153
CIB 74
CJ P / CJ X 147
CKE 78
CO Y1 / CO Y2 / CO Y5 146
CP P2 / CP P7 / CP P8 142
CP P4 / CP Y4 / CP P1 / CP Y1 / CP P3 141
CPB 76
CR Q1 / CR P1 / CR Y1 143
CT Q1 / CT P1 / CT P2 145
CXB/CXB-NM 75

D

DAB 49
DBS 52
DE 94-95
DIS NEW 50
DLB 51
DS 93

E

EFS 11
EHA 15
EMB 12
EMB-V 13
EMS 14
EOB 91
EOC 96-97
EOE 90
EOS 92
EW-N / EG-N 32
EWJ 28

F

FCB 56
FES / FEJ 35
FFN 64
FGE 60
FKB 57
FOB-S / FOB-NS 61
FPB NEW 62
FPE NEW 55

H

HCB 155
HCD 157
HCN 156
HDB-N / HDB-XL 154
HFA 158
HFC 159
HFD 160-161
HFM 162

I

IFC 100-101
IFS 79
IOC 98-99
IXC 102-103

K

KBP-V20 IP65 136
KDP 124
KFA-V20 138
KFC-TM 134
KFD-V20 137
KFD-V40 IP68 139
KFN-TM 133
KFP-V20 IP65 136
KFP-V20 IP67 137
KFP-V30 138
KFP-V40 139
KFP-V40 IP68 139
KFS-TM 133
KFU-V20 138
KFU-V30 138
KXC-TM 135

N

NFC 119
NIB 118
NXC 120

P

PCB/ PCJ 26-27
PCD 24
PDS / PDT 36-37
PEJ / PES 34
PFB 25
PLJ / PLS 30
PNS / PNJ 31
PWS 33

R

RIB 69
RPB 70

S

SCD-4.0 167
SCD-4.0-PRO 168
SFB / SFB-H 65
SFE 104
SXC 66-67

T

TGC 9
TGD 9

U

UFA 113
UFC 116
UIB 114
UID 115
UXC 117

V

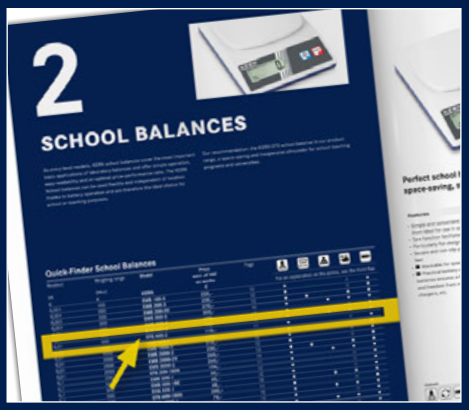
VHB 149

W

WTB 63

Y

YBI-01A, YPS 172
YKC-01, YKH-01, YKG-01 164
YKA-02, CFS-A04, AFH 12 170
YKI-10/-11 NEW 169
YKI-12 NEW 169
YKT-01 NEW 165
YKV 122
YRO-01 / -02 / -03 173



KERN Quick-Finder

How I quickly find the product I am looking for

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

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

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

Product Group Index 2026

Pocket Balances

1

8–9



School Balances

2

10–19



Precision Balances

3

20–37



Analytical Balances

4

38–47



Moisture Analysers

5

48–52



Bench Scales

6

53–57



Food (Kitchen, Stainless steel, IP65...68 Protection)

7

58–67



Price Computing Scales

8

68–70



Counting Scales, Counting Systems

9

71–85



Parcel Scales, Platform Scales

10

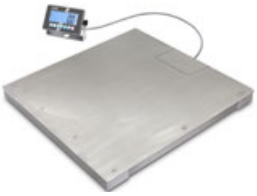
86–104



Floor Scales, Pallet Scales, Drive-through Scales

11

105–120



System Solutions Industry 4.0, EasyTouch

12

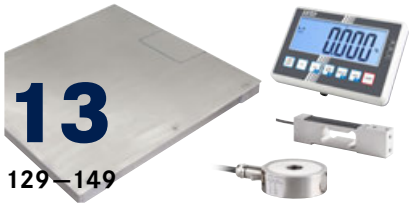
121–128



Display Devices, Platforms, Weighing Bridges, Load Cells

13

129–149



Pallet Truck Scales

14

148–149



Hanging Scales, Crane Scales

15

151–162



Accessories, Software

16

163–173



Test Weights

17

174–203



Accredited Calibration, Verification Service

18

204–216



Do you have questions about our products?

Our customer consultants will be pleased to assist you

UK, IE, BE, LU, IS, IT, MT



Fabiana Schmid
Area Sales Manager
Tel. +49 7433 9933-387
Mobile +49 151 46143240
fabiana.schmid@kern-sohn.com

UK, IE, BE, LU, IS



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

IT, MT



Daniela Huber-Grasso
Back Office
Tel. +49 7433 9933-291
daniela.huber-grasso@kern-sohn.com

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



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



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

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



Anna-Maria Ruoff
Area Sales Manager
Tel. +49 7433 9933-316
Mobile +49 171 3059661
anna-maria.ruoff@kern-sohn.com



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

DK, SE, FI, NO, NL



Hanna Blackschleger
Area Sales Manager
Tel. +49 7433 9933-305
Mobile +49 171 3031168
hanna.blackschleger@kern-sohn.com



Danielle Bergfeld
Back Office
Tel. +49 7433 9933-158
bergfeld@kern-sohn.com

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



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

ES, PT, Latin America



Jesús Martínez
Area Sales Manager
Tel. +49 7433 9933-209
Mobile +49 151 46143229
jesus.martinez@kern-sohn.com



Melanie Lukoki
Back Office
Tel. +49 7433 9933-122
melanie.lukoki@kern-sohn.com

DAkkS Accr. Calibration Service Inhouse, Test Weights, Balances & Measuring Instr.



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

DAkkS Accr. Calibration Service On Site Balances, Test Weights



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

General Manager



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

Head of Division Sales and Marketing



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

Marketing Manager, Deputy Sales Manager



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

Team Manager Marketing & Communications



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

KERN Product Specialists

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



Laboratory, Food

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



Test weights

Hanna Blackschleger
Tel. +49 7433 9933-305
Mobile +49 171 3031168
hanna.blackschleger@kern-sohn.com



Medical Sector

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



Software

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



Industry

Mark Schmid
Tel. +49 7433 9933-352
Mobile +49 171 6422337
mark.schmid@kern-sohn.com



Industrial Measuring Technology

Michael Stingel
Tel. +49 7433 9933-293
Mobile +49 151 55381003
michael.stingel@kern-sohn.com

KERN Hotlines

Technical questions about our products?
You will find assistance here quickly: +49 7433 9933- ...

Service Hotline →199
For general technical questions about your KERN product

System Solutions Industry 4.0 →200
For all technical questions concerning the interlocking of the latest information and communication technology with our scales, load cells and measuring devices as well as questions about KERN software

Industrial Scales →333
For all technical questions concerning our basic scales (laboratory & industry), pocket balances, school balances, bench scales, price-computing scales, platform scales, counting scales, counting systems, floor scales, pallet truck scales, crane scales, veterinary scales

Laboratory and Analytical Balances →444
For all technical questions concerning our high quality precision balances, analytical balances (especially with electromagnetic force-compensated measuring systems, tuning fork and high application density)

Medical Scales →499
For all technical questions concerning our baby scales, personal scales, handrail scales, chair scales, wheelchair scales, dynanometers

SAUTER measuring instruments →555
For all technical questions concerning our SAUTER measuring instruments, test benches, force measuring accessories (clamps etc.), SAUTER software

Moisture Analysers →599
For all technical questions concerning our moisture analysers

Optical Devices →777
For all technical questions concerning our microscopes, microscope cameras, refractometers, etc.

EasyTouch (Software) →322
For all technical questions about the installation and commissioning of the EasyTouch software

NEW IN → 2026

More innovation. More performance. More wow factor.

Our new 2026 products demonstrate what happens when technology meets passion. You're invited to discover the smart features and impressive performance for yourself.

NEW



Our compact unit for heavy-duty applications → KERN FPB

Robust design, flexible use: With its robust construction and sophisticated features, it is the ideal solution for hygienic applications and daily use in the food sector and production.

For details, see *Food*

NEW



Compact and reliable
→ Needle Printer KERN YKT-01

Numerous functions and the large LCD display make this printer the ideal addition to your scale.

For details, see *Accessories*

NEW



Precision in a small unit → KERN FPE

Compact, hygienic and reliable: This bench scale with stainless steel design and checkweighing function offers everything you need for easy portioning, dosing or counting in everyday working life. Ideal for flexible use in production, warehouses or the food industry.

For details, see *Bench Scales*

NEW



Precision meets versatility → KERN DIS

With high resolution, intuitive operation and real-time visualisation, this moisture analyser delivers precise and reproducible results – even with low moisture content. Ideal for demanding applications in quality assurance, production and laboratories.

For details, see *Moisture Analysers*

NEW



Cleverly networked measuring data → KERN YKI-10, YKI-11

Compact converter for integrating RS-232 measuring devices into IP networks – compatible with the KERN BalanceConnection Software.

For details, see *Accessories*

NEW



Measure flexibly, connect wirelessly → KERN YKI-12

The WiFi converter enables the wireless connection of RS-232 measuring devices to tablets, PCs or networks – ideal when there is a physical separation. Compatible with the KERN BalanceConnection Software.

For details, see *Accessories*

1



POCKET BALANCES

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

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

Quick-Finder Pocket Balances

Readout	Weighing capacity	**Model**	**Price** on request	Page			
[d]	[Max]						
g	g	**KERN**			For an explanation on the pictos, see the front flap		
0,001	50	**TGD 50-3C**		9	●	●	●
0,01	150	**TGC 150-2**		9	●	●	●
0,1	500	**TGC 500-1**		9	●	●	●
1	1000	**TGC 1K-3**		9	●	●	●

● Standard ○ Option



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

Features

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



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

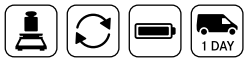
Features

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

Discover more details and matching accessories online!



STANDARD



OPTION





STANDARD



OPTION



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

2



SCHOOL BALANCES

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

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

Quick-Finder School Balances

Readout [d] g	Weighing range [Max] g	Model KERN	Price on request	Page		RS 232			
					For an explanation on the pictos, see the front flap				
0,001	100	**EMB 100-3**		12	●			○	●
0,001	200	**EMB 200-3**		12	●			○	●
0,001	200	**EMB 200-3V**		13	●	●		●	●
0,001	300	**EMS 300-3**		14	●		●	●	●
0,01	200	**EMB 200-2**		12	●			○	●
0,01	500	**EHA 500-2**		15	●		●	●	●
0,01	500	**EFS 500-2**		11	●			○	●
0,01	600	**EMB 600-2**		12	●			○	●
0,01	1000	**EMB 1000-2**		12	●			○	●
0,01	2000	**EMB 2000-2**		12	●			○	●
0,01	2000	**EMB 2000-2V**		13	●	●		●	●
0,01	3000	**EMS 3000-2**		14	●		●	●	●
0,1	220	**EFS 200-1S05**		11	●			○	●
0,1	500	**EMB 500-1**		12	●			○	●
0,1	500	**EMB 500-1BE**		12	●			○	●
0,1	500	**EHA 500-1**		15	●		●	●	●
0,1	620	**EFS 600-1S05**		11	●			○	●
0,1	1000	**EHA 1000-1**		15	●		●	●	●
0,1	1200	**EMB 1200-1**		12	●			○	●
0,1	3000	**EHA 3000-1**		15	●		●	●	●
0,1	3000	**EFS 3000-1**		11	●			○	●
0,1	3000	**EMB 3000-1**		12	●			○	●
0,1	6000	**EMB 6000-1**		12	●			○	●
0,1	6000	**EMS 6K0.1**		14	●		●	●	●
0,1	12000	**EMS 12K0.1**		14	●		●	●	●
1	2200	**EMB 2200-0**		12	●			○	●
1	2200	**EFS 2000-0S05**		11	●			○	●
1	3000	**EHA 3000-0**		15	●		●	●	●
1	5200	**EMB 5.2K1**		12	●			○	●
1	5200	**EFS 5000-0S05**		11	●			○	●
1	6000	**EMS 6K1**		14	●		●	●	●
1	12000	**EMS 12K1**		14	●		●	●	●
5	5200	**EMB 5.2K5**		12	●			○	●

● Standard ○ Option



SET 5×







Discover more details and matching accessories online!

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

Features

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

Technical data

- Large LCD display, digit height 15 mm
- Dimensions weighing surface, plastic, W×D 134×127 mm
- Overall dimensions W×D×H 145×205×46,5 mm
- Battery operation, 4×1.5 V AA standard, operating time up to 200 h. Integrated AUTO-OFF function to preserve the batteries
- Net weight approx. 0,45 kg
- Permissible ambient temperature 10 °C/40 °C

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

STANDARD



OPTION



Model	Weighing capacity	Readability	Reproducibility	Linearity	Quantity delivered (balance)	Price on request	Options
	[Max]	[d]					**Calibr. Certificate**
KERN	g	g	g	g			DAkkS accr. KERN
EFS 500-2	500	0,01	0,01 g	± 0,03	1		963-127
EFS 200-1S05	220	0,1	0,1 g	± 0,3	5		963-127S05
EFS 600-1S05	620	0,1	0,1 g	± 0,3	5		963-127S05
EFS 3000-1	3000	0,1	0,1 g	± 0,3	1		963-127
EFS 2000-0S05	2200	1	1 g	± 3	5		963-127S05
EFS 5000-0S05	5200	1	1 g	± 3	5		963-128S05











Discover more details and matching accessories online!

Entry level laboratory balance with tremendous weighing performance

Features

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

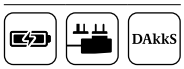
Technical data

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

STANDARD



OPTION



Model	Weighing capacity	Readability	Reproducibility	Linearity	Weighing plate	Price on request	Options
	[Max]	[d]					Calibr. Certificate
KERN	g	g	g	g			DAkkS accr. KERN
EMB 100-3	100	0,001	0,001 g	± 0,005	A		963-127
EMB 200-3	200	0,001	0,001 g	± 0,005	A		963-127
EMB 200-2	200	0,01	0,01 g	± 0,02	B		963-127
EMB 600-2	600	0,01	0,01 g	± 0,03	B		963-127
EMB 1000-2	1000	0,01	0,01 g	± 0,05	C		963-127
EMB 2000-2	2000	0,01	0,01 g	± 0,05	C		963-127
EMB 500-1	500	0,1	0,1 g	± 0,2	C		963-127
EMB 500-1BE	500	0,1	0,1 g	± 0,2	C		963-127
EMB 1200-1	1200	0,1	0,1 g	± 0,3	C		963-127
EMB 3000-1	3000	0,1	0,1 g	± 0,3	C		963-127
EMB 6000-1	6000	0,1	0,1 g	± 0,3	C		963-128
EMB 2200-0	2200	1	1 g	± 2	C		963-127
EMB 5.2K1	5200	1	1 g	± 3	C		963-128
EMB 5.2K5*	5200	5	5 g	± 10	C		963-128

! * ONLY WHILE STOCKS LAST





Discover more details and matching accessories online!

School balance with integrated density determination function

Features

- 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. Note: Balance and appropriate set for density determination should be ordered at the same time, see *internet*
- Self-explanatory, graphic control panel
  - no learning time = reduces costs
  - ideal for untrained users
  - visualised process avoids operating errors
- The 4 steps are carried out from left to right:
  1 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

Technical data

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

STANDARD



OPTION



Model	Weighing capacity	Readability	Reproducibility	Linearity	Weighing plate	Price on request	Options
							Calibr. Certificate
	[Max]	[d]					DAkkS accr.
KERN	g	g	g	g			KERN
EMB 200-3V	200	0,001	0,002 g	± 0,005	A		963-127
EMB 2000-2V	2000	0,01	0,02 g	± 0,05	B		963-127




A

Discover more details and matching accessories online!

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

Features

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

Technical data

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

STANDARD



OPTION



Model	Weighing capacity	Readability	Reproducibility	Linearity	Weighing plate	Price on request	Options
							Calibr. Certificate
KERN	[Max] g	[d] g	g	g			DAkkS accr. KERN
EMS 300-3	300	0,001	0,002 g	± 0,005	A		963-127
EMS 3000-2	3000	0,01	0,02 g	± 0,05	B		963-127
EMS 6K0.1	6000	0,1	0,1 g	± 0,3	B		963-128
EMS 12K0.1	12000	0,1	0,1 g	± 0,3	B		963-128
EMS 6K1	6000	1	1 g	± 3	B		963-128
EMS 12K1	12000	1	1 g	± 3	B		963-128











Discover more details and matching accessories online!

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

Features

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

Technical data

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

STANDARD



OPTION



Model	Weighing capacity	Readability	Reproducibility	Linearity	Weighing plate	Price on request	Options
							Calibr. Certificate
KERN	[Max] g	[d] g	g	g			DAkkS accr. KERN
EHA 500-2	500	0,01	0,03 g	± 0,03	A		963-127
EHA 500-1	500	0,1	0,3 g	± 0,3	A		963-127
EHA 1000-1	1000	0,1	0,3 g	± 0,3	B		963-127
EHA 3000-1	3000	0,1	0,3 g	± 0,3	B		963-127
EHA 3000-0	3000	1	3 g	± 2	B		963-127

WHEN DESIGN MEETS PERFORMANCE

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



Performance

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



Design

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



Philosophy

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







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

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

User Interface

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





Service

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

Note: **KERN EasyDisplay** is the smart software solution for large-format displays in real time. Available free of charge and compatible with all models in the IoT range.





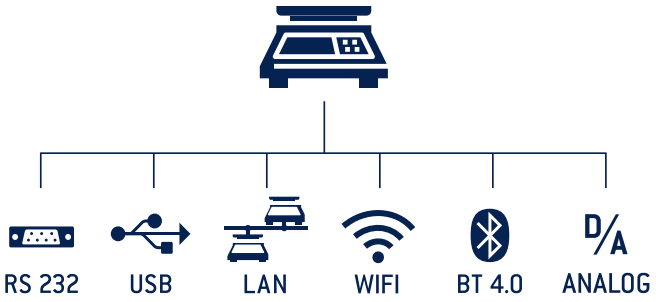
Note: Our KERN IoT accessories can be easily combined with all our IoT models.

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

ARE YOU READY?

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

Prepared for the future of weighing in the Internet of Things?
Get IoT ready – with the IoT models from KERN.

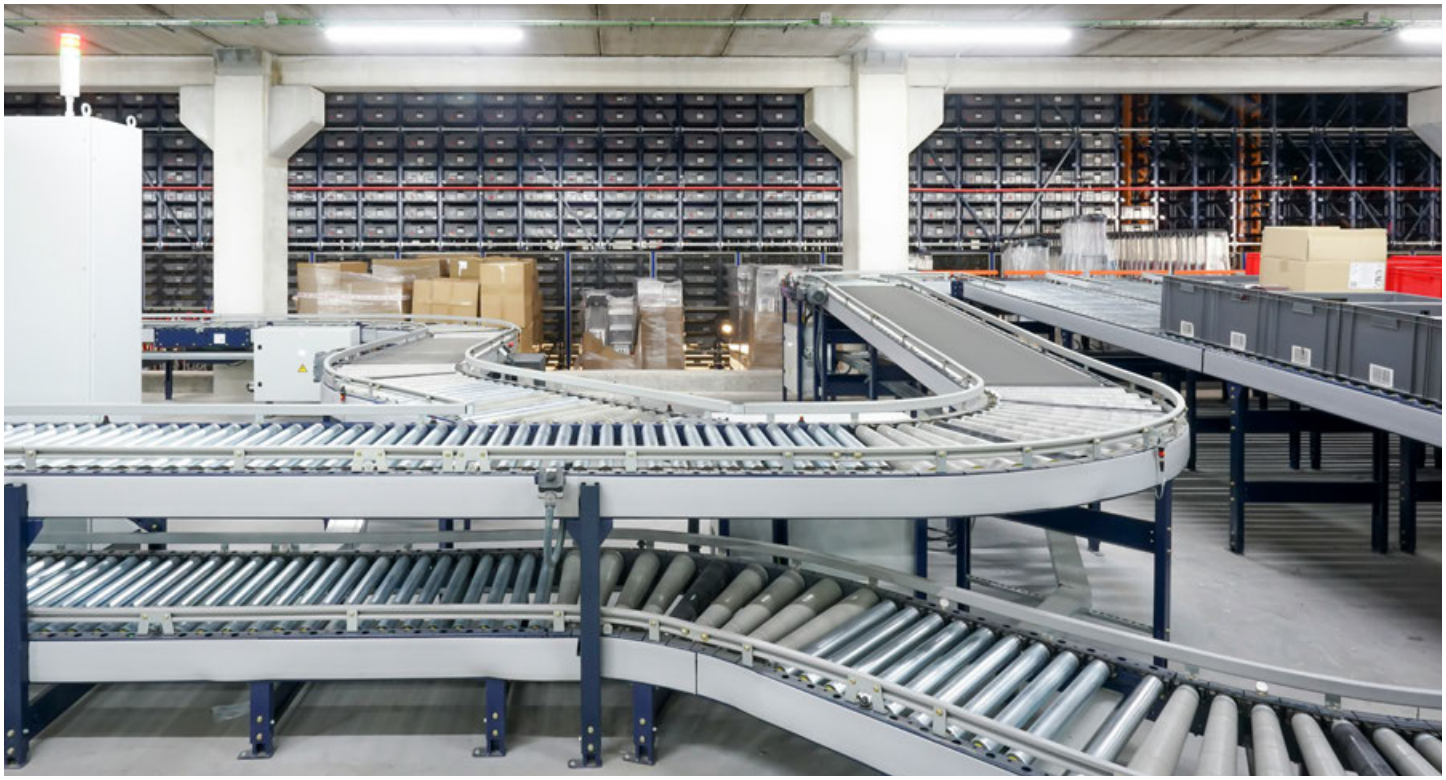








Robust industrial models from KERN for the very best integration into workflows



KERN Universal Port (KUP)

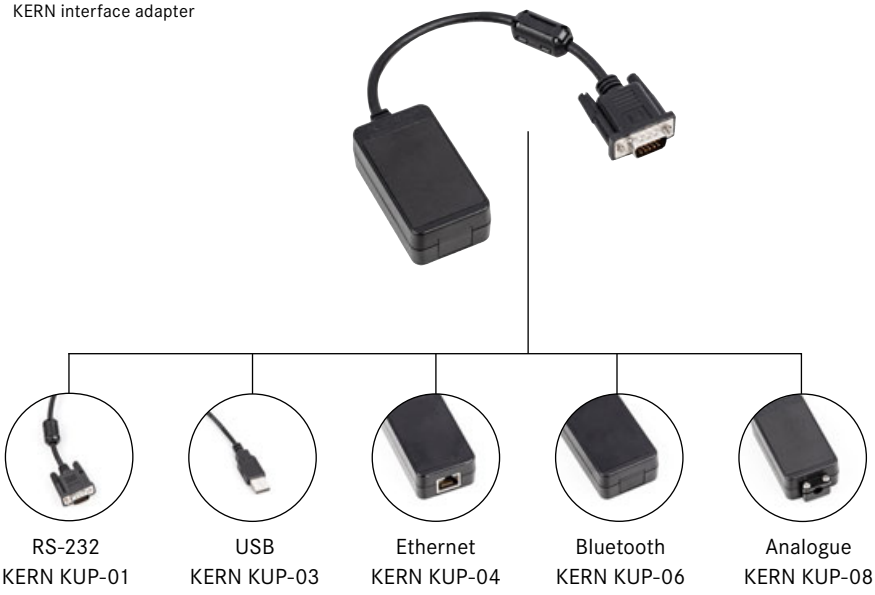
The KERN Universal Port (KUP) allows the connection of external KUP interface adapters such as RS-232, USB, Bluetooth, WiFi, Analogue, Ethernet etc.

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

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

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

KERN interface adapter



RS-232
KERN KUP-01

USB
KERN KUP-03

Ethernet
KERN KUP-04

Bluetooth
KERN KUP-06

Analogue
KERN KUP-08

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

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



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

KERN Communication Protocol (KCP)

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

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

KCP – Export (“Outbound”) – the Highlights

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

KCP – Import (“Inbound”) – the Highlights

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

3



PRECISION BALANCES

Precise technology for every application

KERN precision balances stand for reliable measuring results and maximum accuracy – tailored to the most diverse requirements in the laboratory and production environment. The range extends from easy-to-use models for basic applications to powerful devices with extensive functions for particularly demanding tasks. This means that there is a suitable solution for almost every application - whether for daily routine use or for highly specialised processes with increased demands on precision, traceability and efficiency.

The balances are based on proven measuring principles such as the tuning fork weighing principle, the strain gauge or the electromagnetic force compensation system and impress with their robust design and sophisticated functionality. Thanks to rapid display times and countless laboratory functions, including data transfer interfaces, recipe functions and GLP-compliant documentation, they can be flexibly integrated into a wide variety of working environments. Whether in research, in quality assurance, in the production of recipes or in the precise weighing of the smallest quantities in production, KERN precision balances reliably support users in maintaining defined standards and process reliability.

Modern features help to optimise work processes and ensure consistent data processing.
With this variety of designs, performance levels and options, KERN offers the right precision balance for every requirement.

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

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



Digital weighing data – with KERN EasyTouch

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

What benefits does KERN EasyTouch offer?

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

This is how KERN EasyTouch works:

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

Tip: Turn your balance into a powerful weighing system!

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

This symbol will show you which balances are compatible with EasyTouch

Quick-Finder Precision Balances

Readability [d] g	Weighing capacity [Max] g	Model KERN	Price on request	Page	M			RS 232	GLP				
					For an explanation on the pictos, see the front flap								
0,001	120	**PFB 120-3**		25			●	●	●	●	●		○
0,001	200	**PCB 200-3**		26			●	○		●	●	●	○
0,001	200	**PFB 200-3**		25			●	●	●	●	●		○
0,001	220	**EW 220-3NM**		32			●	●					○
0,001	220	**EG 220-3NM**		32	○	●		●					○
0,001	240	**572-30**		29			●	○		●	●		○
0,001	250	**PCD 250-3**		24			●	●		●		●	○
0,001	300	**PFB 300-3**		25			●	●	●	●	●		○
0,001	300	**EWJ 300-3**		28		●		●	●	●	●		○
0,001	300	**EWJ 300-3H**		28		●		●	●	●	●		○
0,001	300	**572-31**		29			●	○		●	●		○
0,001	320	**PDS 300-3**		36			●	●	●	●	●		
0,001	320	**PDT 300-3**		36		●		●	●	●	●		
0,001	350	**PCD 300-3**		24			●	●		●		●	○
0,001	360	**PCB 300-3**		26			●	○		●	●	●	○
0,001	420	**572-32**		29			●	○		●	●		○
0,001	420	**PLS 420-3F**		30			●	●	●		●		
0,001	420	**PLJ 420-3F**		30		●		●	●		●		
0,001	420	**EW 420-3NM**		32			●	●					○
0,001	420	**EG 420-3NM**		32	○	●		●					○
0,001	600	**PFB 600-3**		25			●	●	●	●	●		○
0,001	600	**EWJ 600-3**		28		●		●	●	●	●		○
0,001	620	**PNS 600-3**		31			●	●	●				
0,001	620	**PNJ 600-3M**		31	○	●		●	●				
0,001	620	**EW 620-3NM**		32			●	●					○
0,001	620	**EG 620-3NM**		32	○	●		●					○
0,001	620	**PES 620-3M**		34			●	●		●			
0,001	620	**PDS 600-3**		36			●	●	●	●	●		
0,001	620	**PEJ 620-3M**		34	○	●		●		●			
0,001	620	**PDT 600-3**		36		●		●	●	●	●		
0,001	720	**PLS 720-3A**		30			●	●	●		●		
0,001	720	**PLJ 720-3A**		30		●		●	●		●		
0,001	1020	**PDS 1000-3**		36			●	●	●	●	●		
0,001	1020	**PDT 1000-3**		36		●		●	●	●	●		
0,001	1200	**PLS 1200-3A**		30			●	●	●		●		
0,001	1200	**PLJ 1200-3A**		30		●		●	●		●		
0,001	2100	**PLJ 2000-3A**		30		●		●	●		●		
0,01	300	**PCB 300-2**		26			●	○		●	●	●	○
0,01	600	**PFB 600-2**		25			●	●	●	●	●		○
0,01	600	**PCJ 600-2M**		26	○	●		○	●	●	●	●	○
0,01	600	**EWJ 600-2SM**		28	○	●				●	●		○
0,01	600	**EWJ 600-2M**		28	○	●		●	●	●	●		○
0,01	820	**EW 820-2NM**		32			●	●					○
0,01	820	**PWS 800-2**		33			●	●			●	○	
0,01	1200	**PCB 1000-2**		26			●	○		●	●	●	○
0,01	1200	**PFB 1200-2**		25			●	●	●	●	●		○
0,01	1600	**572-33**		29			●	○		●	●		○
0,01	2000	**PFB 2000-2**		25			●	●	●	●	●		○
0,01	2200	**EW 2200-2NM**		32			●	●					○
0,01	2200	**PES 2200-2M**		34			●	●		●			
0,01	2200	**EG 2200-2NM**		32	○	●		●					○
0,01	2200	**PDS 2000-2**		36			●	●	●	●	●		
0,01	2200	**PEJ 2200-2M**		34	○	●		●		●			
0,01	2200	**PDT 2000-2**		36		●		●	●	●	●		
0,01	2400	**572-35**		29			●	○		●	●		○
0,01	2500	**PCD 2500-2**		24			●	●		●		●	○
0,01	3000	**PFB 3000-2**		25			●	●	●	●	●		○
0,01	3000	**EWJ 3000-2**		28		●		●	●	●	●		○
0,01	3000	**572-37**		29			●	○		●	●		○
0,01	3200	**PNS 3000-2**		31			●	●	●				
0,01	3200	**PNJ 3000-2M**		31	○	●		●	●				
0,01	3500	**PCD 3000-2**		24			●	●		●		●	○
0,01	3600	**PCB 3000-2**		26			●	○		●	●	●	○
0,01	4200	**572-39**		29			●	○		●	●		○
0,01	4200	**PLS 4200-2F**		30			●	●	●		●		
0,01	4200	**PLJ 4200-2F**		30		●		●	●		●		
0,01	4200	**EW 4200-2NM**		32			●	●					○
0,01	4200	**EG 4200-2NM**		32	○	●		●					○
0,01	4200	**PES 4200-2M**		34			●	●		●			
0,01	4200	**PDS 4000-2**		36			●	●	●	●	●		
0,01	4200	**PEJ 4200-2M**		34	○	●		●		●			

News 2026

● Standard ○ Option

Quick-Finder Precision Balances

Readability [d] g	Weighing capacity [Max] g	Model KERN	Price on request	Page	M			RS 232	GLP				
					For an explanation on the pictos, see the front flap								
0,01	4200	**PDT 4000-2**		36		●		●	●	●	●		
0,01	6000	**PFB 6000-2**		25			●	●	●	●	●		○
0,01	6000	**EWJ 6000-2**		28		●		●	●	●	●		○
0,01	6200	**PLS 6200-2A**		30			●	●	●		●		
0,01	6200	**EW 6200-2NM**		32			●	●					○
0,01	6200	**PLJ 6200-2A**		30		●		●	●		●		
0,01	6200	**PES 6200-2M**		34			●	●		●			
0,01	6200	**PDS 6000-2**		36			●	●	●	●	●		
0,01	6200	**PDT 6000-2**		36		●		●	●	●	●		
0,01	8200	**PLS 8000-2A**		30			●	●	●		●		
0,01	10200	**PDS 10K-5**		36		●	●	●	●	●	●		
0,05	12000	**572-45**		29			●	○		●	●		○
0,05	20000	**572-55**		29			●	○		●	●		○
0,1	2000	**PCB 2000-1**		26			●	○		●	●	●	○
0,1	3200	**PWS 3000-1**		33			●	●			●	○	
0,1	6000	**PCB 6000-1**		26			●	○		●	●	●	○
0,1	6000	**PCD 6K-4**		24			●	●		●		●	○
0,1	6000	**PFB 6000-1**		25			●	●	●	●	●		○
0,1	6000	**PCJ 6000-1M**		26	○	●		○	●	●	●	●	○
0,1	6000	**EWJ 6000-1SM**		28	○	●				●	●		○
0,1	6000	**EWJ 6000-1M**		28	○	●		●	●	●	●		○
0,1	8200	**PWS 8000-1**		33			●	●			●	○	
0,1	10000	**PCB 10000-1**		26			●	○		●	●	●	○
0,1	10000	**PCD 10K0.1**		24			●	●		●		●	○
0,1	10000	**572-43**		29			●	○		●	●		○
0,1	12000	**PNS 12000-1**		31			●	●	●				
0,1	12000	**PNJ 12000-1M**		31	○	●		●	●				
0,1	12000	**EW 12000-1NM**		32			●	●					○
0,1	15000	**PES 15000-1M**		34			●	●		●			
0,1	16000	**572-49**		29			●	○		●	●		○
0,1	17000	**FES 17K-4**		35			●	●	●	●	●		○
0,1	17000	**FEJ 17K-4M**		35	○	●		●	●	●	●		○
0,1	20000	**PLS 20000-1F**		30			●	●	●		●		
0,1	24000	**572-57**		29			●	○		●	●		○
0,1	31000	**PES 31000-1M**		34			●	●		●			
0,1	33000	**FES 33K-4**		35			●	●	●	●	●		○
0,1	33000	**FEJ 33K-4M**		35	○	●		●	●	●	●		○
0,1 | 1	6200 | 62000	**FES 62K-4D**		35			●	●	●	●	●		○
0,1 | 1	6200 | 62000	**FEJ 62K-4DM**		35	○	●		●	●	●	●		○
1	6000	**PCB 6000-0**		26			●	○		●	●	●	○
1	10000	**PCD 10K-3**		24			●	●		●		●	○

☐ News 2026

● Standard ○ Option





Discover more details and matching accessories online!

High-resolution precision balance with removable display for maximum flexibility

Features

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

Technical data

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

STANDARD

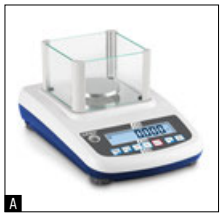


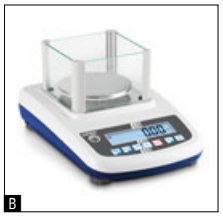
OPTION



Model KERN	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Overall dimensions W×D×H mm	Weighing plate	Price on request	Options Calibr. Certificate DAkkS accr. KERN
PCD 250-3	250	0,001	0,002	± 0,005	165×280×141	A		963-127
PCD 300-3	350	0,001	0,002	± 0,005	165×280×141	A		963-127
PCD 2500-2	2500	0,01	0,02	± 0,05	165×280×75	B		963-127
PCD 3000-2	3500	0,01	0,02	± 0,05	165×280×75	B		963-127
PCD 6K-4	6000	0,1	0,1	± 0,3	165×280×75	B		963-128
PCD 10K0.1	10000	0,1	0,1	± 0,3	165×280×75	B		963-128
PCD 10K-3	10000	1	1	± 3	165×280×75	B		963-128







Discover more details and matching accessories online!

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

Features

- KERN PFB 600-3, PFB 6000-2: The measuring system's exceptionally high resolution of 600.000 points ensures the highest level of accuracy with large weighing ranges
- Wide range of functions including statistics, recipe and totalling functions
- Weighing with tolerance range: a visual and audible signal helps with portioning, dispensing or grading
- Standardised, convenient KERN concept of operation: All primary functions have their own key on the keypad
- Compact size
- Capacity display: A bargraph display lights up to show how much of the weighing range is still available
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- Draught shield standard for models with weighing plate size A, B, removable, weighing space W×D×H 140×150×65 mm

Technical data

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

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Resolution	Weighing plate	Price on request	Options Calibr. Certificate DAkkS accr.
KERN	g	g	g	g	Points			KERN
PFB 120-3	120	0,001	0,002	± 0,003	120.000	A		963-127
PFB 200-3	200	0,001	0,002	± 0,004	200.000	A		963-127
PFB 300-3	300	0,001	0,003	± 0,005	300.000	A		963-127
PFB 600-3	600	0,001	0,005	± 0,005	600.000	B		963-103
PFB 600-2	600	0,01	0,01	± 0,02	60.000	B		963-127
PFB 1200-2	1200	0,01	0,02	± 0,03	120.000	B		963-127
PFB 2000-2	2000	0,01	0,02	± 0,04	200.000	B		963-127
PFB 3000-2	3000	0,01	0,03	± 0,05	300.000	B		963-127
PFB 6000-2	6000	0,01	0,05	± 0,07	600.000	C		963-104
PFB 6000-1	6000	0,1	0,1	± 0,2	60.000	C		963-128



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

Features

- KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- For further information on KUP and KCP see page 19
- Standardised, simplified concept of operation
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- With the recipe function you can weigh the different ingredients of a mixture. As a check, you can also call up the total weight of all the ingredients
- Weighing with tolerance range: a visual and audible signal helps with portioning, dispensing or grading
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, paper weight g/m^2, or similar
- Hook for underfloor weighing included with the delivery
- Protective working cover included with delivery

KERN PCB

- A special Anti-Shock system between the weighing plate and weighing cell reduces vibrations during the weighing process and in this way ensures rapid, reliable weighing results
- A Ring-shaped draught shield standard, only for models with weighing plate size A, weighing space Ø×H 90×40 mm

KERN PCJ

- With alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further
- The balance can be adjusted in battery operation without the need for mains power
- Standardised, convenient KERN concept of operation
- Menu with a large number of settings which can be adapted to your requirements. For example, you can specify button tones, assign a button with different functions for rapid access and adapt the print protocol as necessary
- Menu block prevents access by unauthorised users
- Ideal for connection to laboratory information systems (LIMS)
- GLP/ISO record keeping of weighing data, balance adjustment, etc. with date, time and identification number
- 1 Internal adjustment using the rotary control on the side guarantees a high degree of accuracy and means it can be used in any location


A


B


C


1



Discover more details and matching accessories online!

Technical data

- Backlit LCD display, digit height 21 mm
- Dimensions weighing surface
  - A ⌀ 82 mm
  - B ⌀ 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

KERN PCB

- Overall dimensions (without draught shield) W×D×H 163×245×65 mm
- Optional battery operation, 4× 1.5 V AA, not included in scope of delivery, operating time up to 20 h. AUTO-OFF-function to preserve the battery
- Permissible ambient temperature -10 °C/40 °C

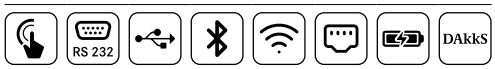
KERN PCJ

- Overall dimensions W×D×H 163×245×80 mm
- Battery operation, 4× 1.5 V AA standard, operating time up to 20 h
- Permissible ambient temperature 15 °C/35 °C

STANDARD



OPTION



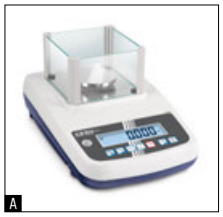
FACTORY

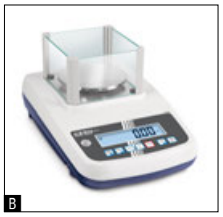


PCJ

Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Linearity	Weighing plate	Net weight	Price on request	Options	
									Verification	Calibr. Certificate
KERN	g	g	g	g	g		kg		KERN	DAkkS accr. KERN
PCB 200-3	200	0,001	-	-	± 0,005	A	1,00		-	- 963-127
PCB 300-3	360	0,001	-	-	± 0,005	A	0,85		-	- 963-127
PCB 300-2	300	0,01	-	-	± 0,02	B	1,2		-	- 963-127
PCB 1000-2	1200	0,01	-	-	± 0,03	C	1,2		-	- 963-127
PCB 3000-2	3600	0,01	-	-	± 0,05	C	1,6		-	- 963-127
PCB 2000-1	2000	0,1	-	-	± 0,2	C	1,4		-	- 963-127
PCB 6000-1	6000	0,1	-	-	± 0,3	D	1,6		-	- 963-128
PCB 10000-1	10000	0,1	-	-	± 0,3	D	1,4		-	- 963-128
PCB 6000-0	6000	1	-	-	± 2	D	1,6		-	- 963-128
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.										
PCJ 600-2M	600	0,01	0,1	0,5	± 0,03	C	2,0		965-216	963-127
PCJ 6000-1M	6000	0,1	1	5	± 0,3	D	2,8		965-217	963-128











Discover more details and matching accessories online!

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

Features

- EWJ 600-3/EWJ 6000-2: The measuring system's exceptionally high resolution of 600.000 points ensures the highest level of accuracy with large weighing ranges
- Wide range of functions including statistics, recipe and totalling functions
- Weighing with tolerance range: a visual and audible signal helps with portioning, dispensing or grading
- Standardised, convenient KERN concept of operation: All primary functions have their own key on the keypad
- Automatic internal adjustment, time-controlled every 2 h, guarantees high degree of accuracy and makes the balance independent of its location
- Capacity display: A bargraph display lights up to show how much of the weighing range is still available
- KERN EWJ/-H/-M: USB data interface for transferring weighing data to the PC, printer etc.
- Small draught shield as standard for models with weighing plate size A, B, removable, weighing space W×D×H 134×128×80 mm
- 1 KERN EWJ 300-3H: Large glass draught shield with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 155×175×217 mm
- Protective working cover included with delivery

Technical data

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

STANDARD



EWJ / EWJ-M | EWJ / EWJ-M | EWJ / EWJ-M | EWJ / EWJ-M | EWJ / EWJ-M | EWJ / EWJ-M

OPTION



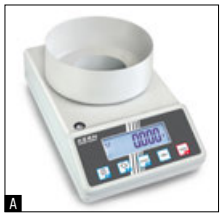
FACTORY



EWJ-M / EWJ-SM

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




A


B

Discover more details and matching accessories online!

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

Features

- Thanks to the many typical laboratory functions combined with the high level of precision, the KERN 572 is a reliable partner for day-to-day work in the laboratory
- Many typical industrial functions, such as piece-counting and vibrationfree weighing also make these balances ideal for all industrial applications, where a high level of precision is required
- KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- Standardised, simplified concept of operation
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar
- The robust aluminium diecast housing maintains the stability, protects the weighing technology elements and is robust enough to cope with everyday use
- A Ring-shaped draught shield standard, only for models with weighing plate size A, weighing space ⌀×H 157×43 mm
- Level indicator to level the balance precisely
- Load support on the underside of the balance for models. Loop for underfloor weighing, standard for models with weighing plate size A
- Protective working cover included with delivery

Technical data

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

STANDARD



A

OPTION



B C

FACTORY



Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Resolution	Weighing plate	Price on request	Options Calibr. Certificate DAkkS accr. KERN
KERN	g	g	g	g	Points			
572-30	240	0,001	0,001	± 0,003	240.000	A		963-127
572-31*	300	0,001	0,002	± 0,005	300.000	A		963-127
572-32	420	0,001	0,002	± 0,005	420.000	A		963-127
572-33	1600	0,01	0,01	± 0,03	160.000	B		963-127
572-35	2400	0,01	0,01	± 0,03	240.000	B		963-127
572-37*	3000	0,01	0,02	± 0,05	300.000	B		963-127
572-39	4200	0,01	0,02	± 0,05	420.000	B		963-127
572-45	12000	0,05	0,05	± 0,15	240.000	C		963-128
572-55	20000	0,05	0,1	± 0,25	400.000	C		963-128
572-43	10000	0,1	0,1	± 0,3	100.000	C		963-128
572-49	16000	0,1	0,1	± 0,3	160.000	C		963-128
572-57	24000	0,1	0,1	± 0,3	240.000	C		963-128

! * ONLY WHILE STOCKS LAST




1


2


A


C

Discover more details and matching accessories online!

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

Features

- 1 Convenient recipe-weighing with the recipe database, up to 99 recipes can be stored, each with up to 20 recipe ingredients with name and target value
- Internal memory for complete recipes with name and target value of the recipe ingredients
- Dosage aid: High stability mode and other filter settings can be selected
- Rapid and efficient operation thanks to the graphics display
- Simple, clear user interface on the display in the following languages: DE, EN, FR, IT, ES, PT
- KERN PLJ: Automatic internal adjustment, guarantees high degree of accuracy and makes the balance independent of its location of use
- 2 KERN PLJ 2000-3A: High-quality milligram balance with enormous weighing range up to 2100 g – ideal for large samples or heavy tare containers. Large glass draught shield for easy access to the items being weighed. Weighing space W×D×H 160×170×225 mm
- A Ring-shaped draught shield standard, only for models with weighing plate size A, weighing space Ø×H 150×60 mm
- Protective working cover included with delivery

Technical data

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

STANDARD



PLJ PLS PLS-F / PLJ-F PLS-A / PLJ-A

OPTION



Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Overall dimensions W×D×H	Net weight	Weighing plate	Price on request	Options Calibr. Certificate DAkkS accr. KERN
KERN	g	g	g	g	mm	kg			
Models with external adjustment									
PLS 420-3F	420	0,001	0,001	± 0,004	210×340×160	3,2	A		963-127
PLS 720-3A	720	0,001	0,001	± 0,002	210×340×160	4,8	A		963-103
PLS 1200-3A	1200	0,001	0,001	± 0,003	210×340×160	4,8	A		963-103
PLS 4200-2F	4200	0,01	0,01	± 0,04	210×340×120	3,2	B		963-127
PLS 6200-2A	6200	0,01	0,01	± 0,03	210×340×120	4,8	B		963-104
PLS 8000-2A	8200	0,01	0,01	± 0,04	210×340×120	4,8	B		963-104
PLS 20000-1F	20000	0,1	0,1	± 0,4	210×340×120	3,2	C		963-128
Models with internal adjustment									
PLJ 420-3F	420	0,001	0,001	± 0,003	210×340×160	5,0	A		963-127
PLJ 720-3A	720	0,001	0,001	± 0,002	210×340×160	5,0	A		963-103
PLJ 1200-3A	1200	0,001	0,001	± 0,003	210×340×160	5,0	A		963-103
PLJ 2000-3A	2100	0,001	0,002	± 0,004	210×340×330	7	A		963-103
PLJ 4200-2F	4200	0,01	0,02	± 0,04	210×340×120	5,0	B		963-127
PLJ 6200-2A	6200	0,01	0,01	± 0,05	210×340×120	5,0	B		963-104





Discover more details and matching accessories online!

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

Features

- KERN PNS: Adjusting program CAL for quick setting of the balance accuracy, external test weights at an additional price, see *test weights*
- KERN PNJ; Automatic internal adjustment, guarantees high degree of accuracy and makes the balance independent of its location of use. Ideal for applications which require verification
- High-quality tuning fork weighing system for rapid display of the weight, very precise dispensing and a high level of mechanical robustness
- Capacity display: A bargraph display lights up to show how much of the weighing range is still available
- The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Compact size
- Large, shock proof weighing plate made of stainless steel
- A Large glass draught shield with 3 sliding doors for easy access to the items being weighed: for models with weighing plate size A, weighing space W×D×H 172×171×160 mm
- Protective working cover included with delivery

Technical data

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

STANDARD | OPTION | FACTORY



PNJ PNS PNJ

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









Discover more details and matching accessories online!

The classic balance with robust tuning fork measuring system

Features

- 1 KERN EG: Internal adjustment in the case of a change in temperature and time-controlled at defined intervals, guarantees high degree of accuracy and makes the balance independent of its location of use
- Stable temperature behaviour
- Short stabilisation time
- Shock proof construction
- High corner load performance
- Capacity display: A bargraph display lights up to show how much of the weighing range is still available
- Totalising of pieces when counting
- A Draught shield standard for models with weighing plate size A, weighing space W×D×H 158×130×78 mm
- Protective working cover included with delivery

Technical data

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

STANDARD | OPTION | FACTORY



EG-N EW-N EG 220-3NM EG-N

Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Linearity	Weighing plate	Net weight	Price on request	Options	
									Verification	Calibr. Certificate
KERN	g	g	g	g	g		kg		KERN	DAkkS accr. KERN
EW 220-3NM	220	0,001	-	-	± 0,002	A	1,4		- -	963-127
EW 420-3NM	420	0,001	-	-	± 0,003	A	1,4		- -	963-127
EW 620-3NM	620	0,001	-	-	± 0,003	A	1,4		- -	963-103
EW 820-2NM	820	0,01	-	-	± 0,01	B	1,6		- -	963-127
EW 2200-2NM	2200	0,01	-	-	± 0,01	C	3,0		- -	963-127
EW 4200-2NM	4200	0,01	-	-	± 0,02	C	3,0		- -	963-127
EW 6200-2NM	6200	0,01	-	-	± 0,03	C	3,0		- -	963-104
EW 12000-1NM	12000	0,1	-	-	± 0,2	C	3,0		- -	963-128
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.										
EG 220-3NM	220	0,001	0,01	0,02	± 0,002	A	2,0		965-216	963-127
EG 420-3NM	420	0,001	0,01	0,02	± 0,003	A	1,8		965-216	963-127
EG 620-3NM	620	0,001	0,01	0,1	± 0,004	A	2,0		965-201	963-103
EG 2200-2NM	2200	0,01	0,1	0,5	± 0,01	C	4,0		965-216	963-127
EG 4200-2NM	4200	0,01	0,1	0,5	± 0,02	C	4,0		965-216	963-127




1


A





Discover more details and matching accessories online!

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

Features

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

Technical data

- Large LCD display, digit height 16,5 mm
- Dimensions weighing surface, stainless steel
  A ⌀ 140 mm
  B W×D 190×190 mm, see larger picture
- Overall dimensions W×D×H 320×205×90 mm
- Net weight approx. 3,0 kg
- Permissible ambient temperature 10 °C/30 °C

STANDARD



OPTION



Model	Weighing capacity	Readability	Reproducibility	Linearity	Weighing plate	Price on request	Options
							Calibr. Certificate
KERN	[Max] g	[d] g	g	g			DAkkS accr. KERN
PWS 800-2	820	0,01	0,01	± 0,01	A		963-127
PWS 3000-1	3200	0,1	0,1	± 0,1	B		963-127
PWS 8000-1	8200	0,1	0,1	± 0,1	B		963-128









Discover more details and matching accessories online!

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

Features

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

Technical data

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

STANDARD | OPTION | FACTORY

PEJ | PES | RS 232 2× | A, B | 1 DAY | DAkkS | PEJ

Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Linearity	Weighing plate	Net weight	Price on request	Options: Verification		Options: Calibr. Certificate
KERN	g	g	g	g	g		kg		KERN		DAkkS accr. KERN
PES 620-3M	620	0,001	-	-	± 0,003	A	3,4		-	-	963-103
PES 2200-2M	2200	0,01	-	-	± 0,02	B	4,4		-	-	963-127
PES 4200-2M	4200	0,01	-	-	± 0,02	B	4,4		-	-	963-127
PES 6200-2M	6200	0,01	-	-	± 0,03	B	4,4		-	-	963-104
PES 15000-1M	15000	0,1	-	-	± 0,2	B	4,4		-	-	963-128
PES 31000-1M	31000	0,1	-	-	± 0,4	C	10		-	-	963-128

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

PEJ 620-3M	620	0,001	0,01	0,1	± 0,003	A	4,4		965-201	963-103
PEJ 4200-2M	4200	0,01	0,1	0,5	± 0,02	B	6		965-216	963-127
PEJ 2200-2M	2200	0,01	0,1	0,5	± 0,02	B	6		965-216	963-127









Discover more details and matching accessories online!

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

Features

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

Technical data

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

STANDARD



FEJ FES

OPTION

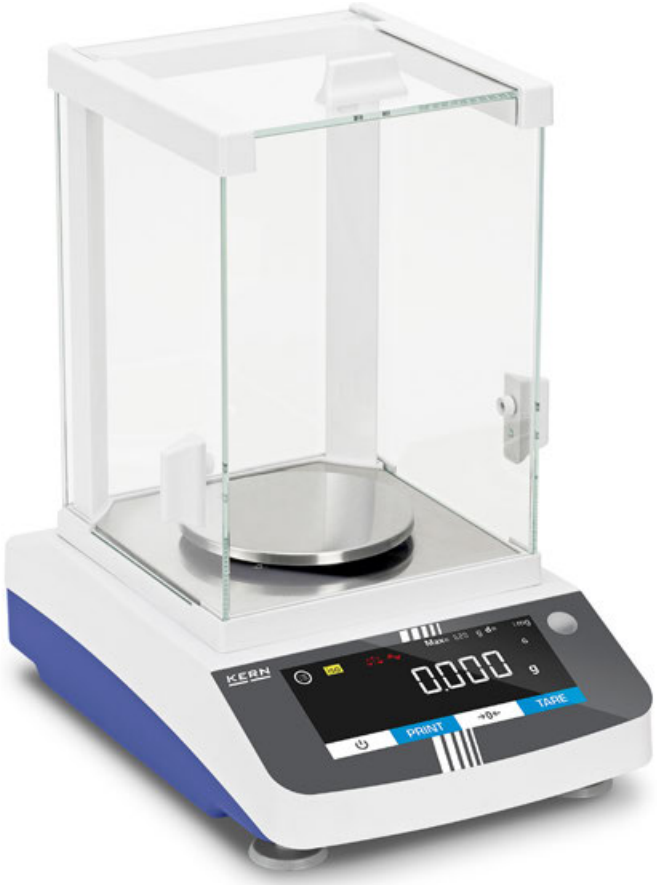


FACTORY



FEJ

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



Precision balance with flexible functionality and touch display



The modern touch display enables convenient operation



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



B

Discover more details and matching accessories online!

Features

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

Technical data

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

Main scope of applications

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

STANDARD



PDT PDS

OPTION



Model KERN	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Net weight kg	Weighing plate	Price on request	Options Calibr. Certificate DAkkS accr. KERN
Models with external adjustment								
PDS 300-3	320	0,001	0,003	± 0,003	6	A		963-127
PDS 600-3	620	0,001	0,003	± 0,003	6	A		963-103
PDS 1000-3	1020	0,001	0,004	± 0,005	6	A		963-103
PDS 2000-2	2200	0,01	0,03	± 0,03	3,6	B		963-127
PDS 4000-2	4200	0,01	0,03	± 0,03	3,6	B		963-127
PDS 6000-2	6200	0,01	0,03	± 0,03	3,6	B		963-104
PDS 10K-5 NEW	10200	0,01	0,03	± 0,03	5,0	B		963-104
Models with internal adjustment								
PDT 300-3	320	0,001	0,003	± 0,003	6	A		963-127
PDT 600-3	620	0,001	0,003	± 0,003	6	A		963-103
PDT 1000-3	1020	0,001	0,004	± 0,005	6	A		963-103
PDT 2000-2	2200	0,01	0,03	± 0,03	3,6	B		963-127
PDT 4000-2	4200	0,01	0,03	± 0,03	3,6	B		963-127
PDT 6000-2	6200	0,01	0,03	± 0,03	3,6	B		963-104

NEW New model

4



ANALYTICAL BALANCES

Quick-Finder Analytical Balances

Readout [d] mg	Weighing range [Max] g	Model KERN	Price on request	Page	M			RS 232		GLP	
					For an explanation on the pictos, see the front flap						
0,01 | 0,1	52 | 120	**ABP 100-5DM**		44	○	●		●	●	●	●
0,01 | 0,1	52 | 120	**ABP 100-5DAM**		46	○	●		●	●	●	●
0,01 | 0,1	82 | 220	**ALJ 200-5DA**		40		●		●		●	●
0,01 | 0,1	102 | 220	**ABP 200-5DM**		44	○	●		●	●	●	●
0,01 | 0,1	102 | 220	**ABP 200-5DAM**		46	○	●		●	●	●	●
0,01	135	**ABP 100-5M**		44	○	●		●	●	●	●
0,01	135	**ABP 100-5AM**		46	○	●		●	●	●	●
0,01	210	**ALJ 210-5A**		40		●		●		●	●
0,01	220	**ABP 200-5M**		44	○	●		●	●	●	●
0,01	220	**ABP 200-5AM**		46	○	●		●	●	●	●
0,1	82	**ACS 80-4**		42			●	●	●		●
0,1	82	**ACJ 80-4M**		42	○	●		●	●		●
0,1	120	**ADB 100-4**		39			●	●			
0,1	120	**ADJ 100-4**		39		●		●			
0,1	120	**ACS 100-4**		42			●	●	●		●
0,1	120	**ACJ 100-4M**		42	○	●		●	●		●
0,1	120	**ADS 100-4**		43			●	●	●		●
0,1	120	**ADT 100-4**		43		●		●	●		●
0,1	120	**ABP 100-4M**		44	○	●		●	●	●	●
0,1	160	**ALS 160-4A**		40			●	●		●	●
0,1	160	**ALJ 160-4A**		40		●		●		●	●
0,1	220	**ADB 200-4**		39			●	●			
0,1	220	**ADJ 200-4**		39		●		●			
0,1	220	**ACS 200-4**		42			●	●	●		●
0,1	220	**ACJ 200-4M**		42	○	●		●	●		●
0,1	220	**ADS 200-4**		43			●	●	●		●
0,1	220	**ADT 200-4**		43		●		●	●		●
0,1	220	**ABP 200-4M**		44	○	●		●	●	●	●
0,1	220	**ABP 200-4AM**		46	○	●		●	●	●	●
0,1	250	**ALS 250-4A**		40			●	●		●	●
0,1	250	**ALJ 250-4A**		40		●		●		●	●
0,1	310	**ALJ 310-4A**		40		●		●		●	●
0,1	320	**ACS 300-4**		42			●	●	●		●
0,1	320	**ACJ 300-4M**		42	○	●		●	●		●
0,1	320	**ADS 300-4**		43			●	●	●		●
0,1	320	**ADT 300-4**		43		●		●	●		●
0,1	320	**ABP 300-4M**		44	○	●		●	●	●	●
0,1	320	**ABP 300-4AM**		46	○	●		●	●	●	●
0,1	510	**ALJ 500-4A**		40		●		●		●	●
0,001 ct	600 ct	**ADB 600-C3**		39			●	●			
0,001 ct	600 ct	**ADJ 600-C3**		39		●		●			

● Standard ○ Option





Discover more details and matching accessories online!

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

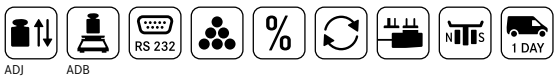
Features

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

Technical data

- Large backlit LCD display
- Dimensions weighing surface, stainless steel, ⌀ 90 mm
- weighing space W×D×H
  KERN ADB-C/ADJ-C: 170×160×110 mm
  KERN ADB/ADJ: 170×160×205 mm
- Permissible ambient temperature 10 °C/30 °C

STANDARD



ADJ ADB

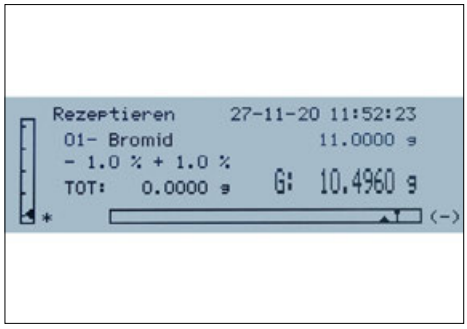
OPTION



Model KERN	Weighing capacity [Max] g	Readability [d] mg	Reproducibility mg	Linearity mg	Overall dimensions W×D×H mm	Net weight kg	Price on request	Options Calibr. Certificate DAkkS accr. KERN
ADB 100-4	120	0,1	0,2	± 0,4	230×310×330	4,4		963-101
ADB 200-4	220	0,1	0,2	± 0,4	230×310×330	4,4		963-101
ADB 600-C3	600 ct	0,001 ct	0,002 ct	± 0,004 ct	230×310×210	3,8		963-101
ADJ 100-4	120	0,1	0,2	± 0,4	230×310×330	5,0		963-101
ADJ 200-4	220	0,1	0,2	± 0,4	230×310×330	5,0		963-101
ADJ 600-C3	600 ct	0,001 ct	0,002 ct	± 0,004 ct	230×310×210	4,6		963-101



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



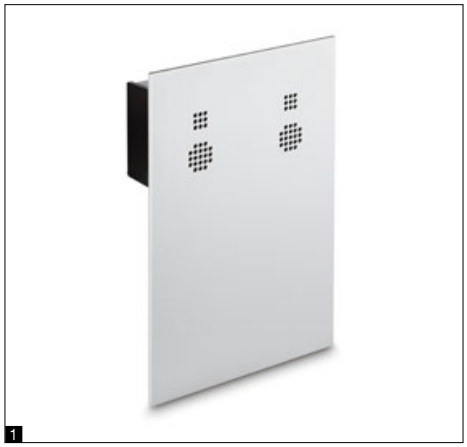
Convenient recipe-weighing with the recipe database, up to 99 recipes can be stored, each with up to 20 recipe ingredients with name and target value



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



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



1



2

Discover more details and matching accessories online!

Features

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

Technical data

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

2 KERN ALJ 200-5DA with optional ioniser 1, see *internet*. High-precision semi-micro analytical balance. Thanks to its high level of precision, it is ideal for calibrating pipettes
Note: To prevent evaporation we recommend economical capillary tubes
(see standard 8655)

STANDARD



ALJ ALS

OPTION



Model	Weighing capacity	Readability	Reproducibility	Linearity	Net weight	Price on request	Options
							Calibr. Certificate
KERN	[Max] g	[d] mg	mg	mg	kg		DAkkS accr. KERN
ALS 160-4A	160	0,1	0,1	± 0,3	7		963-101
ALS 250-4A	250	0,1	0,1	± 0,3	7		963-101
ALJ 210-5A	210	0,01	0,05	± 0,1	6		963-101
ALJ 160-4A	160	0,1	0,1	± 0,3	7		963-101
ALJ 250-4A	250	0,1	0,1	± 0,3	7		963-101
ALJ 310-4A	310	0,1	0,1	± 0,3	7		963-101
ALJ 500-4A	510	0,1	0,2	± 0,4	7		963-101
	Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range						
ALJ 200-5DA	82 | 220	0,01 | 0,1	0,04 | 0,1	± 0,1 | 0,2	7		963-101







Discover more details and matching accessories online!

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

Features

- KERN ACJ: Automatic internal adjustment in the case of a change in temperature ≥ 2 °C or time-controlled every 4 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN ACS: Adjusting program CAL for quick setting of the balance accuracy, external test weights at an additional price, see *test weights*
- Dosage aid: High stability mode and other filter settings can be selected
- Simple recipe weighing and documenting with a combined tare/print function. In addition, the ingredients for the recipe are numbered automatically and printed out with their corresponding number and nominal weight
- Automatic data output to the PC/printer each time the balance is steady
- Identification number: 4 digits, printed on calibration protocol freely programmable
- 1 USB data interfaces and RS-232 for transferring weighing data to the PC, tablet, printer or USB
- Protective working cover included with delivery

Technical data

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

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

STANDARD



ACJ ACS

OPTION

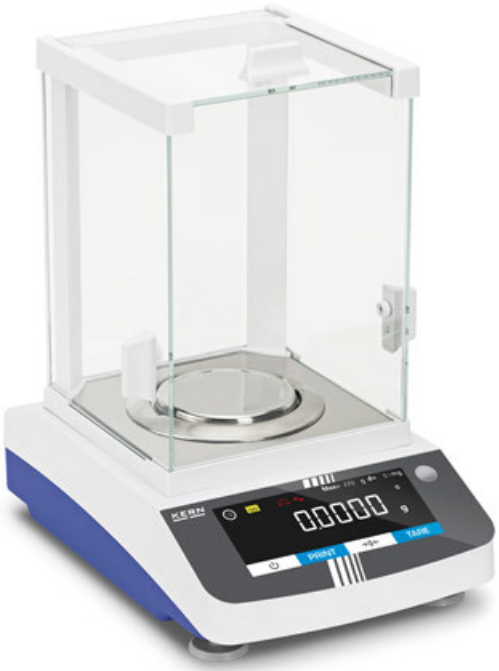


FACTORY



ACJ

Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Reproducibility	Linearity	Price on request	Options	
								Verification	Calibr. Certificate
KERN	g	mg	mg	mg	mg	mg		KERN	DAkkS accr. KERN
ACS 80-4	82	0,1	-	-	0,2	± 0,3		- -	963-101
ACS 100-4	120	0,1	-	-	0,2	± 0,3		- -	963-101
ACS 200-4	220	0,1	-	-	0,2	± 0,3		- -	963-101
ACS 300-4	320	0,1	-	-	0,2	± 0,3		- -	963-101
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.									
ACJ 80-4M	82	0,1	1	10	0,2	± 0,3		965-201	963-101
ACJ 100-4M	120	0,1	1	10	0,2	± 0,3		965-201	963-101
ACJ 200-4M	220	0,1	1	10	0,2	± 0,3		965-201	963-101
ACJ 300-4M	320	0,1	1	10	0,2	± 0,3		965-201	963-101







Discover more details and matching accessories online!

Analytical balance with flexible functionality and touch display

Features

- The wide range of functions of this range of analytical balances means that they qualify for use in the pharmaceutical industry as well as other fields. These include, for example, the statistical function, weighing with tolerance range, counting function, percentage weighing, totalizing function and many more
- 1 Modern touch display with convenient operation enables you to, for example, switch the units or start adjustment straight from the display
- The Windows Direct function allows weights to be transferred directly from the balance to a Windows application via a USB device connection, without the need for manual entry
- Draught shield standard
- Specialised functions, such as the statistical function make it easier to use efficiently in industry and the laboratory
- GLP/ISO record keeping with date, time and identification number of balance adjustment or weighing process
- Assists in data integrity in accordance with U.S. FDA 21 Part 11 (for example weighing result, sample ID, user name, scales ID, ...)
- Data query and remote control of the balance using a computer or CRM/ERP systems using the KERN Communication Protocol, see page 19
- RS-232 data interface and USB (Device) for the transfer of weighing data
- Menu language EN

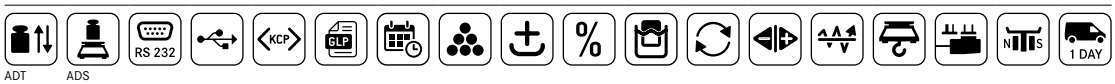
Technical data

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

Main scope of applications

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

STANDARD

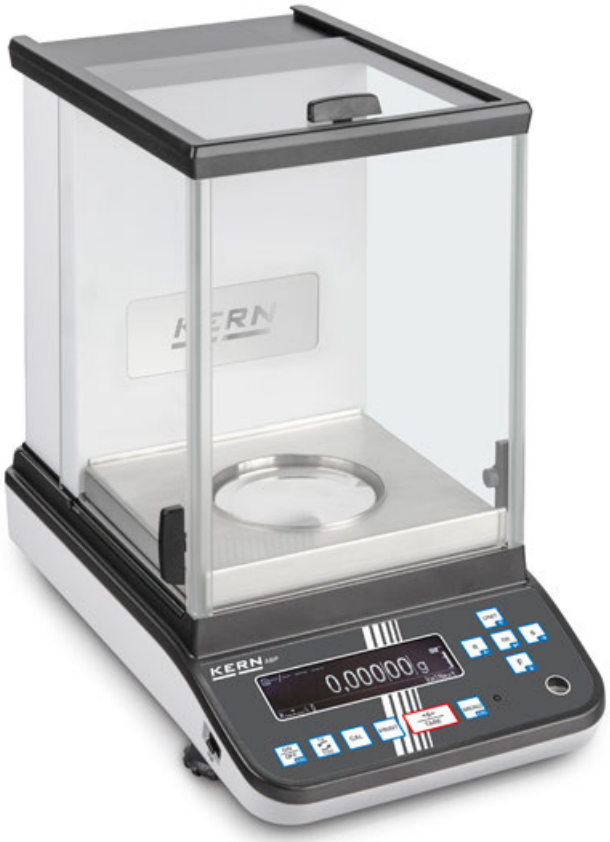


ADT ADS

OPTION



Model	Weighing capacity	Readability	Reproducibility	Linearity	Price on request	Options
						Calibr. Certificate
KERN	[Max] g	[d] mg	mg	mg		DAkkS accr. KERN
			Models with external adjustment			
ADS 100-4	120	0,1	0,3	± 0,3		963-101
ADS 200-4	220	0,1	0,3	± 0,3		963-101
ADS 300-4	320	0,1	0,4	± 0,4		963-101
			Models with internal adjustment			
ADT 100-4	120	0,1	0,3	± 0,3		963-101
ADT 200-4	220	0,1	0,3	± 0,3		963-101
ADT 300-4	320	0,1	0,4	± 0,4		963-101



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



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



Option: Extremely fast ionization process, thanks to the latest generation of KERN ionization technology to neutralise electrostatic charge, see *internet*



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

Features

- Large glass draught shield with 3 sliding doors for easy access to the items being weighed
- Navigation pad for quick navigating through the menus
- Automatic internal adjustment in the case of a change in temperature ≥ 1 °C or timecontrolled every 4 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- The minimum weight of sample can be manually stored in the device or automatically calculated. For weighings below this value, the balance issues a warning message
- Dosage aid: High stability mode and other filter settings can be selected
- Simple recipe weighing and documenting with a combined tare/print function. In addition, the ingredients for the recipe are numbered automatically and printed out with their corresponding number and nominal weight
- Individual settings can be stored for up to 10 users: User name/number, password, menu language, user profile. Settings can be recalled using the barcode. Guest mode for users who are not logged in, specific permissions (e.g. for adjustment, recipe changes) only for authorised users
- RS-232 data interfaces and USB (device) for transferring weighing data and USB (host) to connect a USB keyboard
- U.S. FDA 21 Part 11: assists in data integrity in accordance with U.S. FDA 21 Part 11 (for example weighing result, sample ID, user name, scales ID, ...)
- Menu languages DE, EN
- Automatic data output to the PC/printer each time the balance is steady
- Standard for models with [d] 0,01 mg: Multi-function weighing plate included with delivery, minimises the effect of currents of air in the weighing chamber and therefore significantly improves the stabilisation time and repeatability. In addition samples, sample paper, PCR containers, micro centrifuge tubes and many other items which protrude can be easily fixed in place and weighed easily
- ABP 200-5M: Erlenmeyer flask holder included with delivery
- Protective working cover included with delivery

Technical data

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

Discover more details and matching accessories online!

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

STANDARD



1x Host / 1x Device

OPTION



FACTORY



Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Reproducibility	Linearity	Price on request	Options	
								Verification	Calibr. Certificate
KERN	g	mg	mg	mg	mg	mg		KERN	DAkkS accr. KERN
ABP 100-5M	135	0,01	1	1	0,05	± 0,1		965-201	963-101
ABP 200-5M	220	0,01	1	1	0,015	± 0,1		965-201	963-101
ABP 100-4M	120	0,1	1	10	0,1	± 0,2		965-201	963-101
ABP 200-4M	220	0,1	1	10	0,1	± 0,2		965-201	963-101
ABP 300-4M	320	0,1	1	10	0,15	± 0,3		965-201	963-101
Multi-division balance, with increasing or decreasing load, it switches automatically to the next largest or smallest weighing range [Max] and readout [d].									
ABP 100-5DM	52 | 120	0,01 | 0,1	1 | 1	1	0,02 | 0,1	± 0,05 | 0,2		965-201	963-101
ABP 200-5DM	102 | 220	0,01 | 0,1	1 | 1	1	0,05 | 0,1	± 0,1 | 0,2		965-201	963-101

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











Discover more details and matching accessories online!

Version with automatic sliding doors and other innovative features

Features

- 1 Large glass draught shield: with 3 automatic sliding doors, which can be opened and closed using sensors, and integrated ioniser as standard. Thanks to the Memory Function, the balance stores how far the sliding doors have been opened. This prevents contamination and accelerates processes. Touching the sliding doors “gently” activates the push function and the doors open and shut automatically. Opening possible alternatively via button
- 2 Ioniser (included) can be activated at the touch of a button
- The adjustable internal draft shield minimises the effect of currents of air in the weighing space and guarantees maximum stability of the weight readings, only for 0.01 mg models of the series ABP-A
- 3 Erlenmeyer piston holder, included as standard with ABP 200-5M and ABP 200-5AM
- 4 Standard for models with [d] 0,01 mg: Multi-function weighing plate

Technical data

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

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Reproducibility	Linearity	Price on request	Options	
								Verification	Calibr. Certificate
								MI	DAkkS accr.
KERN	g	mg	mg	mg	mg	mg		KERN	KERN
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.									
ABP 100-5AM	135	0,01	1	1	0,05	± 0,1		965-201	963-101
ABP 200-5AM	220	0,01	1	1	0,015	± 0,1		965-201	963-101
ABP 200-4AM	220	0,1	1	10	0,1	± 0,2		965-201	963-101
ABP 300-4AM	320	0,1	1	10	0,15	± 0,3		965-201	963-101
Multi-division balance, with increasing or decreasing load, it switches automatically to the next largest or smallest weighing range [Max] and readout [d].									
ABP 100-5DAM	52 | 120	0,01 | 0,1	1 | 1	1	0,02 | 0,1	± 0,05 | 0,2		965-201	963-101
ABP 200-5DAM	102 | 220	0,01 | 0,1	1 | 1	1	0,05 | 0,1	± 0,1 | 0,2		965-201	963-101





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

OUR KERN SERVICE FOR YOUR DAILY LABORATORY LIFE

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

Looking for the right test equipment?

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

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

Extensive details on all topics see *Test Weights.*



KERN Safety Sets



KERN Clean room boxes

The benefit of KERN accessories: Count on it – everything fits together!
Our product advisors can recommend the fitting accessories for your KERN devices, so that your individual weighing systems seamlessly work together in a stable and reliable way.

Our accessories tips for all KERN Laboratory balances:



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



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



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

→ **Didn't find the right product in the catalogue?**
You can find the full range of accessories and available KERN test equipment on the internet under www.kern-sohn.com

5

MOISTURE ANALYSERS



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

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

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

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

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

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

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

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

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

Our service options
In order for the comparability of the results of moisture analyses to be guaranteed, the correct temperatures must be maintained in the heating chamber or sample. We offer our customers regular calibration of the temperature for genuine and reliable measuring results. If requested, we can carry out sample analysis for you and support you in adjusting the parameters of your moisture analyser KERN 965-243
Please contact your personal customer advisor if you would like us to help!

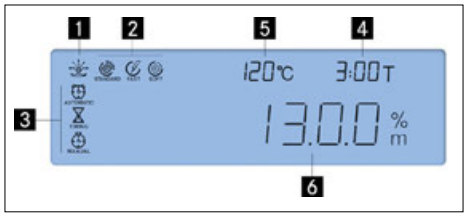
Quick-Finder Moisture Analysers

Readout [d] g	Weighing range [Max] g	Model KERN	Price on request	Page			RS 232		
					For an explanation on the pictos, see the front flap				
0,0001	50	**DIS 50-4**		50	●	●	●	●	●
0,0001	60	**DLB 60-4A**		51	●		●		●
0,001	60	**DBS 60-3**		52	●	●	●	●	●
0,001	110	**DAB 100-3**		49	●	●	●		●
0,001	120	**DIS 100-3**		50	●	●	●	●	●
0,001	160	**DLB 160-3A**		51	●		●		●
0,01	200	**DAB 200-2**		49	●	●	●		●

News 2026

● Standard ○ Option







Discover more details and matching accessories online!

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

Features

- KERN DAB 200-2: Version with lower resolution, whereby the switch-off criterion is reached faster, which saves time. Ideal for quick tests and spot checks
- Backlit graphic display, digit height 14 mm
  - 1 Active drying process
  - 2 Active heating profile
  - 3 Active switch-off criteria
  - 4 Previous drying time
  - 5 Current temperature
  - 6 Current moisture content in %
- 400 W halogen-quartz glass heater
- Suitable for temperature-insensitive samples
- Helpful observation window above the sample
- Internal memory for automatic sequence of 15 complete drying processes and 5 drying processes carried out
- The last value measured remains on the display until it is replaced by a new measurement
- 50 sample plates included
- On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser
- Note: both models are also available in infrared version, see *internet*

STANDARD



OPTION



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

* application-dependent



NEW





Discover more details and matching accessories online!

High-precision moisture analyser for demanding analyses

Features

- Very high resolution: 0,1 mg / 1 mg readout for precise analyses even with low moisture content
- Intuitive operation in three steps (tare – add sample – start) for simple and reproducible analyses
- Real-time visualisation: Drying curves can be shown directly on the display
- Backlit LCD graphic display, digit height 15 mm
- Halogen quartz glass heater 400 W
- Internal scale memory for up to 1000 measurement results
- The last measured value remains visible in the display until the next measurement
- Password protection to prevent manipulation of stored settings, data, etc.
- Sample description for up to 1000 samples, freely programmable, and is printed in the measuring protocol
- Date and time display as standard
- USB data interface for transferring weighing data to the PC, printer etc.
- 50 sample plates included
- Protective working cover included with delivery
- On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

Main scope of applications

- Food processing and quality control
- Cosmetics industry
- Plastics and polymer industry
- Building materials and cement industry

STANDARD



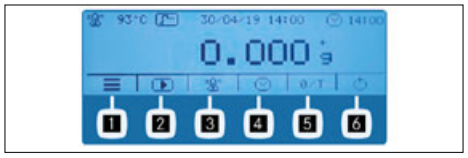
OPTION



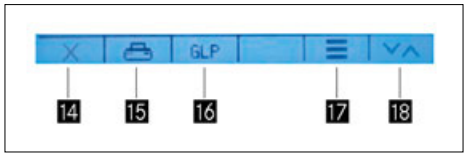
KERN	DIS 50-4 NEW	DIS 100-3 NEW
Readability [d] Weight/Moisture (%)	0,0001 g / 0,0001 %	0,001 g / 0,001 %
Weighing capacity [Max]	50 g	120 g
Reproducibility weight of sample 2 g*	0,05 %	0,1 %
Reproducibility weight of sample 10 g*	0,02 %	0,03 %
Display after drying (Display can be switched over at any time)		
Moisture [%] = Moisture content (M) from wet weight (W)	0,01 % - 100 %	
Dry content [%] = Dry weight (D) from [W]	100 % - 0,01 %	
ATRO [%] [(W-D) : D] · 100 %	0-999 %	
Moisture content (M)	Absolute value in [g]	
Temperature range (in steps up to)	30 °C - 175 °C (1 °C)	
Drying modes	Standard drying, Rapid drying, Gentle drying, Drying in levels	
Switch-off criteria	time controlled, automatic, manual	
Overall dimensions W×D×H	211×342×187 mm	
Net weight	5 kg	
Price on request		
Option Calibr. Certificate DAkkS accr. | Mass	963-127	
Option Factory calibration certificate | Temperature	964-305	

* application-dependet









Discover more details and matching accessories online!

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

Features

- Backlit LCD graphic display, digit height 11 mm
- 6 direct keys for rapid access to the main functions

Home screen:

1 Main menu
2 Start drying process
3 Select drying temperature
4 Select shut-off criteria
5 Setting to zero/taring
6 Stand-by

During measurement:

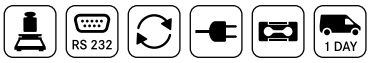
7 Current temperature
8 Current heating profile
9 Active switch-off criteria
10 Abort drying process
11 Stop drying process
12 Display current drying parameters
13 Toggle the unit for displaying the results

At the end of the measurement:

14 Exit drying program
15 Print measurement report
16 (De)activate, edit GLP parameters
17 Display detailed result
18 Toggle the unit for displaying the results

- 400 W halogen-quartz glass heater
- User guidance in 6 languages (DE, EN, FR, IT, ES, PT)
- Automatic taring when starting a measurement by closing the lid
- The last measured value remains visible in the display until the next measurement
- Internal GLP; printout of balance ID, project ID, user ID, values determined by the drying process etc.
- 10 sample plates included
- Protective working cover included with delivery
- On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

STANDARD



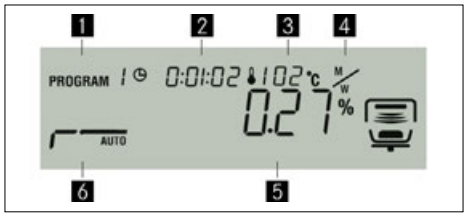
OPTION



KERN	DLB 60-4A NEW	DLB 160-3A
Readability [d] Weight/Moisture (%)	0,0001 g / 0,001 %	0,001 g / 0,01 %
Weighing capacity [Max]	60 g	160 g
Reproducibility weight of sample 2 g*	0,18 %	0,15 %
Reproducibility weight of sample 10 g*	0,05 %	
Display after drying (Display can be switched over at any time)		
Moisture [%] = Moisture content (M) from wet weight (W)	10 % - 100 %	
Dry content [%] = Dry weight (D) from (W)	100 % - 10 %	
ATRO [%] [(W-D) : D] · 100 %	0 - 999 %	
Moisture content (M)	Absolute value in [g]	
Temperature range (in steps up to)	35 °C - 160 °C (1 °C)	
Drying modes	Standard drying, Rapid drying, preheating can be switched on	
Switch-off criteria	Automatic unrestricted switch-off (Selectable loss in weight 0,01mg/30s - 10 mg/30s) 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 5 s - 250 s	
Overall dimensions W×D×H	215×345×235 mm	
Net weight	4,7 kg	
Price on request		
Option Calibr. Certificate DAkkS accr. | Mass	963-103	963-127
Option Factory calibration certificate | Temperature	964-305	

* application-dependent NEW New model







Discover more details and matching accessories online!

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

Features

- Tip: Suitable for samples with low moisture content, e.g. plastics
- Backlit graphic display, digit height 15 mm
  - 1 Active drying process
  - 2 Previous drying time
  - 3 Current temperature
  - 4 Unit for displaying the results
  - 5 Current moisture content in %
  - 6 Active heating profile
- 400 W halogen-quartz glass heater
- Excellent temperature control thanks to halogen technology, suitable for temperature-sensitive samples
- Internal memory for automatic sequence of 10 complete drying processes and 100 drying processes carried out
- The last measured value remains visible in the display until the next measurement
- Password protection to prevent manipulation of stored settings, data, etc.
- Sample description for up to 99 samples, freely programmable, and is printed in the measuring protocol
- Date and time display as standard
- USB data interface for transferring weighing data to the PC, printer etc.
- 50 sample plates included
- Protective working cover included with delivery
- On the internet, you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

STANDARD



OPTION



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

* dépendant de l'application



6

BENCH SCALES

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

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

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

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

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

▸ ***See the Glossary***

Quick-Finder Bench Scales

Readout [d] g	Weighing range [Max] kg	Weighing plate W×D mm	**Model** **KERN**	**Price on request**	Page	M		RS 232						
						For an explanation on the pictos, see the front flap								
0,02	6	340×240	**FKB 6K0.02**		57		●	○	●	●	●	●	●	○
0,05	6	252×225	**FCB 6K-5**		56		●	○	●	●	●	●		○
0,05	8	340×240	**FKB 8K0.05**		57		●	○	●	●	●	●	●	○
0,05	16	340×240	**FKB 16K0.05**		57		●	○	●	●	●	●	●	○
0,1	8	252×225	**FCB 8K0.1**		56		●	○	●	●	●	●		○
0,1	8	340×240	**FKB 8K0.1**		57		●	○	●	●	●	●	●	○
0,1	12	252×225	**FCB 12K-4**		56		●	○	●	●	●	●		○
0,1	16	340×240	**FKB 16K0.1**		57		●	○	●	●	●	●	●	○
0,1	36	340×240	**FKB 36K0.1**		57		●	○	●	●	●	●	●	○
0,2	3	190×230	**FPE 3K-4**		55		●			●	●			○
0,2	30	252×225	**FCB 30K-4**		56		●	○	●	●	●	●		○
0,2	36	340×240	**FKB 36K0.2**		57		●	○	●	●	●	●	●	○
0,2	65	340×240	**FKB 65K0.2**		57		●	○	●	●	●	●	●	○
0,5	6	190×230	**FPE 6K-3**		55		●			●	●			○
0,5	15	340×240	**FKB 15K0.5**		57		●	○	●	●	●	●	●	○
1	3	190×230	**FPE 3K-3M**		55	○	●			●	●			○
1	12	252×225	**FCB 12K1**		56		●	○	●	●	●	●		○
1	15	190×230	**FPE 15K-3**		55		●			●	●			○
1	30	252×225	**FCB 30K1**		56		●	○	●	●	●	●		○
1	30	340×240	**FKB 30K1**		57		●	○	●	●	●	●	●	○
1	65	340×240	**FKB 65K1**		57		●	○	●	●	●	●	●	○
1 | 2	3 | 6	252×225	**FCB 6K-3DM**		56	○	●	○	●	●	●	●		○
2	6	190×230	**FPE 6K-3M**		55	○	●			●	●			○
2	30	190×230	**FPE 30K-3**		55		●			●	●			○
2 | 5	6 | 15	252×225	**FCB 15K-3DM**		56	○	●	○	●	●	●	●		○
5	15	190×230	**FPE 15K-3M**		55	○	●			●	●			○
5 | 10	15 | 30	252×225	**FCB 30K-3DM**		56	○	●	○	●	●	●	●		○
10	30	190×230	**FPE 30K-2M**		55	○	●			●	●			○

☐ News 2026

● Standard ○ Option



NEW









Discover more details and matching accessories online!

6

Entry-level bench scale with stainless steel weighing plate and checkweighing function, with optional verification

Features

- Weighing with tolerance range (checkweighing): a visual signal helps with portioning, dispensing or grading
- Stainless steel weighing plate, which makes cleaning easy and hygienic
- Integrated piece-counting function with storable piece weight
- Sleep function: The scale automatically switches to energy-saving mode after an adjustable period of inactivity

Technical data

- Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, W×D 190×230 mm
- Overall dimensions W×D×H 288×233×102 mm
- Net weight approx. 1,8 kg
- Permissible ambient temperature -10 °C/40 °C

Main scope of applications

- Gastronomy
- Food production
- Agriculture
- Agribusiness

STANDARD | OPTION | FACTORY

FPE-M

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









Discover more details and matching accessories online!

6

Checkweighing and portioning scale with up to three interfaces, with optional verification

Features

- Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- Compact size
- KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay. Available as an option: RS-232, USB, Ethernet, WiFi, Bluetooth
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers. For further information on KUP and KCP see page 19
- Thanks to battery operation/rechargeable battery operation (optional), compact, light-weight construction, it is suitable for the use in several locations
- Weighing with tolerance range: a visual and audible signal helps with portioning, dispensing or grading
- Summation of weight values
- Protective working cover included with delivery

Technical data

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

STANDARD



OPTION



FACTORY



FCB-M

Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Smallest part weight (Normal)	Price on request	Options	
							Verification	Calibr. Certificate
KERN	kg	g	g	g	g/piece		KERN	DAkkS accr. KERN
FCB 6K-5	6	0,05	-	-	0,5		- -	963-128
FCB 8K0.1	8	0,1	-	-	1		- -	963-128
FCB 12K-4	12	0,1	-	-	1		- -	963-128
FCB 12K1	12	1	-	-	10		- -	963-128
FCB 30K-4	30	0,2	-	-	2		- -	963-128
FCB 30K1	30	1	-	-	10		- -	963-128
Multi-division balance, with increasing or decreasing load, it switches automatically to the next largest or smallest weighing range [Max] and readout [d].								
FCB 6K-3DM	3 | 6	1 | 2	1 | 2	20	2		965-228	963-128
FCB 15K-3DM	6 | 15	2 | 5	2 | 5	40	5		965-228	963-128
FCB 30K-3DM	15 | 30	5 | 10	5 | 10	100	10		965-228	963-128

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









Discover more details and matching accessories online!

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

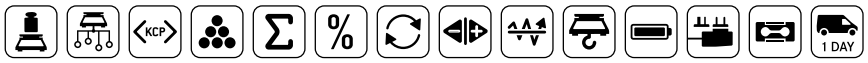
Features

- Thanks to the high resolution of up to 360.000 points it is ideal for high-precision weighing in the industrial field
- Robust plastic die-cast housing: maintains the stability, protects the weighing technology elements and is robust enough to cope with everyday use
- KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- Freely programmable weighing unit, e.g. display direct in special units such as length of wire g/m, surface weight g/m², or else
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard
- Protective working cover included with delivery

Technical data

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

STANDARD



OPTION



Model KERN	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Smallest part weight (Normal) g/piece	Resolution Points	Price on request	Options Calibr. Certificate DAkkS accr. KERN
FKB 6K0.02	6	0,02	0,04	± 0,1	0,2	300.000		963-128
FKB 8K0.05	8	0,05	0,05	± 0,15	0,5	160.000		963-128
FKB 16K0.05	16	0,05	0,1	± 0,25	0,5	320.000		963-128
FKB 8K0.1	8	0,1	0,1	± 0,3	1	80.000		963-128
FKB 16K0.1	16	0,1	0,1	± 0,3	1	160.000		963-128
FKB 15K0.5	15	0,5	0,5	± 1,5	10	30.000		963-128
FKB 36K0.1	36	0,1	0,2	± 0,5	1	360.000		963-128
FKB 36K0.2	36	0,2	0,4	± 1	2	180.000		963-128
FKB 65K0.2	65	0,2	0,4	± 1	2	325.000		963-129
FKB 30K1	30	1	1	± 3	20	30.000		963-128
FKB 65K1	65	1	1	± 3	20	65.000		963-129

7



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

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

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

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

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

▸ ***See the Glossary***

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

KERN-Pictogram	1. digit	Specification	2. digit	Specification
IP 65	6	Dustproof	5	Protection against jets of water (nozzle) from any angle (cleaning with a damp cloth)
IP 66	6	Dustproof	6	Protection against powerful jets of water
IP 67	6	Dustproof	7	Protection against temporary immersion
IP 68	6	Dustproof	8	Protection against continuous immersion (designed for continuous use in wet areas, submersion is possible depending on the pressure (water depth

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

Readout [d] g	Weighing range [Max] kg	Model KERN	Price on request	Page	M		RS 232		IP 65	IP 67	IP 68		
					For an explanation on the pictos, see the front flap								
0,1	0,5	**FOB 500-1S**		61		●						●	
0,1	0,5	**FOB 0.5K-4NS**		61		●			●			●	
0,2	1,5	**WTB 1K-4N**		63		●		●	●				○
0,2	1,5	**FFN 1K-4N**		64		●			●				●
0,2	3	**FPB 3K-4**		62		●		●			●		●
0,5	1,5	**WTB 1K-4NM**		63	○	●		●	●				○
0,5	1,5	**FFN 1K-4NM**		64	○	●			●				●
0,5	3	**WTB 3K-4N**		63		●		●	●				○
0,5	3	**FFN 3K0.5IPN**		64		●			●				●
0,5	6	**FPB 6K-3**		62		●		●			●		●
0,5	6	**SXC 6K-4**		66		●	○	●					○
1	3	**FPB 3K-3M**		62	○	●		●			●		●
1	3	**WTB 3K-3NM**		63	○	●		●	●				○
1	3	**FFN 3K1IPM**		64	○	●			●				●
1	5	**FGE 5K-3S05**		60		●						●	
1	5	**FOB 5K1S**		61		●						●	
1	5	**FOB 5K-3NS**		61		●			●			●	
1	6	**WTB 6K-3N**		63		●		●	●				○
1	6	**FFN 6K1IPN**		64		●			●				●
1	10	**SFB 10K1HIP**		65		●	○	●					●
1	15	**FGE 10K-3S05**		60		●						●	
1	15	**FPB 15K-3**		62		●		●			●		●
1	15	**SXC 10K-3**		66		●	○	●					○
1	15	**SXC 10K-3L**		66		●	○	●					○
1 | 2	3 | 6	**SXC 6K-3M**		66	○	●	○	●					○
2	6	**FPB 6K-3M**		62	○	●		●			●		●
2	6	**WTB 6K-3NM**		63	○	●		●	●				○
2	6	**FFN 6K2IPM**		64	○	●			●				●
2	15	**WTB 10K-3N**		63		●		●	●				○
2	15	**FFN 15K2IPN**		64		●			●				●
2	20	**SFB 20K2HIP**		65		●	○	●					●
2	30	**FPB 30K-3**		62		●		●			●		●
2	30	**SXC 30K-3**		66		●	○	●					○
2	30	**SXC 30K-3L**		66		●	○	●					○
2 | 5	6 | 15	**SXC 10K-3M**		66	○	●	○	●					○
2 | 5	6 | 15	**SXC 10K-3LM**		66	○	●	○	●					○
5	15	**FPB 15K-3M**		62	○	●		●			●		●
5	15	**WTB 10K-3NM**		63	○	●		●	●				○
5	15	**FFN 15K5IPM**		64	○	●			●				●
5	15	**SFB 15K5HIPM**		65	○	●	○	●					●
5	25	**FFN 25K5IPN**		64		●			●				●
5	30	**WTB 30K-3N**		63		●		●	●				○
5	50	**SFB 50K5LHIP**		65		●	○	●					●
5	50	**SFB 50K5HIP**		65		●	○	●					●
5	50	**SFB 50K-3XL**		65		●	○	●					●
5	60	**SXC 60K-3**		66		●	○	●					○
5	60	**SXC 60K-3L**		66		●	○	●					○
5 | 10	15 | 30	**SXC 30K-3M**		66	○	●	○	●					○
5 | 10	15 | 30	**SXC 30K-3LM**		66	○	●	○	●					○
10	25	**FFN 25K10IPM**		64	○	●			●				●
10	30	**FPB 30K-2M**		62	○	●		●			●		●
10	30	**WTB 30K-2NM**		63	○	●		●	●				○
10	30	**SFB 30K10HIPM**		65	○	●	○	●					●
10	100	**SFB 100K10HIP**		65		●	○	●					●
10	100	**SFB 100K-2XL**		65		●	○	●					●
10	150	**SXC 100K-2**		66		●	○	●					○
10	150	**SXC 100K-2L**		66		●	○	●					○
10 | 20	30 | 60	**SXC 60K-2M**		66	○	●	○	●					○
10 | 20	30 | 60	**SXC 60K-2LM**		66	○	●	○	●					○
20	60	**SFB 60K20LHIPM**		65	○	●	○	●					●
20	60	**SFB 60K-2XLM**		65	○	●	○	●					●
20	300	**SXC 300K-2**		66		●	○	●					○
20 | 50	60 | 150	**SXC 100K-2M**		66	○	●	○	●					○
20 | 50	60 | 150	**SXC 100K-2LM**		66	○	●	○	●					○
50	150	**SFB 100K-2HM**		65	○	●	○	●					●
50	150	**SFB 100K-2LM**		65	○	●	○	●					●
50	150	**SFB 100K-2XLM**		65	○	●	○	●					●
50 | 100	150 | 300	**SXC 300K-2M**		66	○	●	○	●					○

☐ News 2026

● Standard ○ Option

7

SET 5×



1 FGE 5K-3S05



2 FGE 10K-3S05



1



2



3



3

Discover more details and matching accessories online!

7

Precise design kitchen scale for kitchen, cafetaria, gastronomy

Features

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

Technical data

1 FGE 5K-3S05
- Large backlit LCD display, digit height 18 mm
- Overall dimensions W×D×H 152×230×15 mm
- Dimensions weighing surface, acryl, W×D 152×230 mm
- Ready for use: Batteries included, 2×CR2032

2 FGE 10K-3S05
- Large, luminescent LED segments display, digit height 22 mm
- Overall dimensions W×D×H 272×250×22 mm
- Dimensions weighing surface, glass, W×D 272×205 mm
- Ready for use: Batteries included, 3×1.5 V AAA

The models are delivered in a set of 5 units. That means the price refers to a delivery of 5 units

STANDARD



OPTION



Model	Weighing capacity	Readability	Price on request	Options
	[Max]	[d]		Calibr. Certificate
KERN	kg	g		DAkkS accr. KERN
FGE 5K-3S05	5	1		963-127S05
FGE 10K-3S05	15	1		963-128S05



FOB-S



FOB-NS



Discover more details and matching accessories online!

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

Features

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

Main scope of applications

- Food industry
- Gastronomy
- Packaging industry
- Hygiene sectors

STANDARD



FOB-NS

OPTION



Model KERN	FOB 500-1S	FOB 5K1S	FOB 0.5K-4NS	FOB 5K-3NS
Weighing capacity [Max] g	500	5000	500	5000
Readability [d] g	0,1	1	0,1	1
Display without backlight, digit height	LCD, 20 mm		LCD, 20 mm	
Dimensions of weighing surface W×D	125×155 mm		120×150 mm	
Overall dimensions W×D×H	155×175×40 mm		150×170×40 mm	
Batteries included with delivery	9 V block		9 V block	
Operating time up to	20 h		20 h	
Net weight	0,70 kg		0,80 kg	
Permissible ambient temperature	10 °C – 40 °C		10 °C – 35 °C	10 °C – 40 °C
Price on request				
Option Calibr. Certificate DAkkS accr.	963-127		963-127	



NEW









Discover more details and matching accessories online!

7

Robust bench scale with IP68/IP69K protection and checkweighing display, with optional verification

Features

- Dust and splash water protection type IP68/ IP69K. Therefore very robust and durable. Ideal for rough environmental conditions
- Stainless steel weighing plate, which makes cleaning easy and hygienic
- Rechargeable battery pack and power supply included with delivery for continuous operation of the scale, even during charging
- Thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations
- Innovative weighing with tolerance range: The colour of the display changes depending on the weight (too light/ok/too heavy) and is an aid to help with portioning, dosing and grading
- Integrated piece-counting function with storable piece weight
- Sleep function: The scale automatically switches to energy-saving mode after an adjustable period of inactivity

Technical data

- Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, W×D 190×230 mm
- Overall dimensions W×D×H 288×233×102 mm
- Net weight approx. 2,2 kg
- Internal rechargeable battery pack, operating time up to 500 h without backlight, charging time approx. 4 h
- Permissible ambient temperature -10 °C/40 °C

Main scope of applications

- Food industry
- Chemical industry
- Pharmaceutical industry

STANDARD



OPTION



FACTORY



FPB-M

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







Discover more details and matching accessories online!

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

Features

- Ideal for the increased hygienic requirements in the food industries
- Your support in a HACCP-compliant quality system
- 1 Protection against dust and water splashes IP65 (only when using rechargeable battery pack)
- Very fast display: steady weight values within 2 s
- 2 Second display on the back of the balance
- Compact size
- 3 Innovative weighing with tolerance range: The colour of the display changes depending on the weight (too light/ok/too heavy) and is an aid to help with portioning, dosing and grading
- Thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- Recessed grips on the underside of the scale for easy transportation
- Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, W×D 263×203 mm
- Overall dimensions W×D×H 286×316×126,5 mm
- Net weight approx. 3,2 kg
- Permissible ambient temperature -10 °C/40 °C

STANDARD | OPTION | FACTORY

IP 65 (1) | 1 DAY | DAkkS | M (WTB-NM)

Model	Weighing capacity	Readability	Verification value	Minimal load	Price on request	Options	
						Verification	Calibr. Certificate
	[Max]	[d]	[e]	[Min]		MID	DAkkS accr.
KERN	kg	g	g	g		KERN	KERN
WTB 1K-4N	1,5	0,2	-	-		-	- 963-127
WTB 3K-4N	3	0,5	-	-		-	- 963-127
WTB 6K-3N	6	1	-	-		-	- 963-128
WTB 10K-3N	15	2	-	-		-	- 963-128
WTB 30K-3N	30	5	-	-		-	- 963-128
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.							
WTB 1K-4NM	1,5	0,5	0,5	10		965-227	963-127
WTB 3K-3NM	3	1	1	20		965-227	963-127
WTB 6K-3NM	6	2	2	40		965-228	963-128
WTB 10K-3NM	15	5	5	100		965-228	963-128
WTB 30K-2NM	30	10	10	200		965-228	963-128

! ONLY WHILE STOCKS LAST









Discover more details and matching accessories online!

7

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

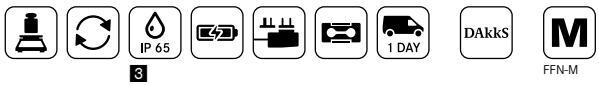
Features

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

Technical data

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

STANDARD | OPTION | FACTORY



3 FFN-M

Model	Weighing capacity	Readability	Verification value	Minimal load	Price on request	Options	
						Verification	Calibr. Certificate
	[Max]	[d]	[e]	[Min]		MID	DAkkS accr.
KERN	kg	g	g	g		KERN	KERN
FFN 1K-4N	1,5	0,2	-	-		- -	963-127
FFN 3K0.5IPN	3	0,5	-	-		- -	963-127
FFN 6K1IPN	6	1	-	-		- -	963-128
FFN 15K2IPN	15	2	-	-		- -	963-128
FFN 25K5IPN	25	5	-	-		- -	963-128
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.							
FFN 1K-4NM	1,5	0,5	0,5	10	965-227		963-127
FFN 3K1IPM	3	1	1	20	965-227		963-127
FFN 6K2IPM	6	2	2	40	965-228		963-128
FFN 15K5IPM	15	5	5	100	965-228		963-128
FFN 25K10IPM	25	10	10	200	965-228		963-128





Discover more details and matching accessories online!

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

Features

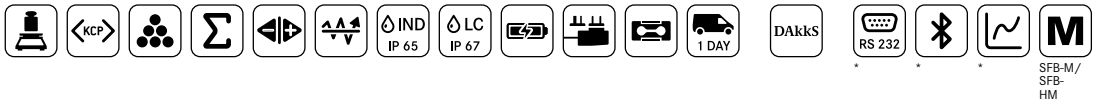
- Ideal for the robust industrial applications
- Display device: stainless steel, protection against dust and water splashes IP65, (only when using rechargeable battery pack)
- Platform: made entirely of stainless steel, silicone-coated Stainless Steel load cell, protection against dust and water splashes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

Technical data

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

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

STANDARD | OPTION | FACTORY



Model KERN	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Weighing plate	Net weight approx. kg	Price on request	Options: Verification MID KERN	Options: Verification KERN	Options: Calibr. Certificate DAkkS accr. KERN
SFB 50K-3XL	50	5	-	-	C	13		-	-	963-128
SFB 100K-2XL	100	10	-	-	D	24		-	-	963-129
					1 with elevated display					
SFB 10K1HIP	10	1	-	-	A	8		-	-	963-128
SFB 20K2HIP	20	2	-	-	A	8		-	-	963-128
SFB 50K5HIP	50	5	-	-	A	8		-	-	963-128
SFB 50K5LHIP	50	5	-	-	B	10		-	-	963-128
SFB 100K10HIP	100	10	-	-	B	10		-	-	963-129
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.										
SFB 60K-2XLM**	60	20	20	400	C	14		965-229		963-129
SFB 100K-2LM**	150	50	50	1000	C	14		965-229		963-129
SFB 100K-2XLM**	150	50	50	1000	D	24		965-229		963-129
					1 with elevated display					
SFB 100K-2HM**	150	50	50	1000	B	10		965-229		963-129
SFB 15K5HIPM**	15	5	5	100	A	8		965-228		963-128
SFB 30K10HIPM**	30	10	10	200	A	8		965-228		963-128
SFB 60K20LHIPM**	60	20	20	400	B	10		965-229		963-129

! **ONLY WHILE STOCKS LAST



7

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

Features

- Ideal for the robust industrial applications
- Platform: made entirely of stainless steel, hermetically welded stainless steel load cell with protection against dust and water splashes IP68, IP69K
- Display device: stainless steel, dust and splash water protection IP68, integrated power supply
- Ideal for the increased hygienic requirements in the food industries
- Superior display size: digit height 48 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- The exchange of data and control commands is optional using up to four interfaces to suit individual requirements: two wired connections (RS-232, Ethernet, USB or analogue module) and two wireless connections (WiFi, Bluetooth)
- Each interface can be set up separately, e.g.:
  - Interface 1 (WiFi): Continuous sending to a PC for documentation of a process
  - Interface 2 (RS-232): Print stable weight
  - Interface 3 (analogue module): Controlling a device when the target weight is reached
  - Interface 4 (Bluetooth): Continuous sending to a tablet to monitor a process
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers (for details see page 19)
- Available as an option with alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further, see internet


A


E

Discover more details and matching accessories online!

Technical data

- Large backlit LCD display, digit height 48 mm
- Weighing platform dimensions W×D×H, stainless steel
  - A 300×240×107 mm
  - B 400×300×111 mm
  - C 400×300×123 mm
  - D 500×400×120 mm
  - E 500×400×126 mm
  - F 650×500×139 mm
- Dimensions of display device W×D×H 232×150×77,3 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C

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

STANDARD



OPTION



FACTORY



SXC-M

Model KERN	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Net weight approx. kg	Weighing plate	Price on request	Options: Verification MTL KERN	Options: Calibr. Certificate DAkkS accr. KERN
SXC 6K-4	6	0,5	-	-	6	A		-	963-128
SXC 10K-3	15	1	-	-	7	A		-	963-128
SXC 10K-3L	15	1	-	-	12	B		-	963-128
SXC 30K-3	30	2	-	-	12	B		-	963-128
SXC 30K-3L	30	2	-	-	22	D		-	963-128
SXC 60K-3	60	5	-	-	12	C		-	963-129
SXC 60K-3L	60	5	-	-	22	E		-	963-129
SXC 100K-2	150	10	-	-	12	E		-	963-129
SXC 100K-2L	150	10	-	-	20	F		-	963-129
SXC 300K-2	300	20	-	-	20	F		-	963-129
Multi-range balance with high-resolution display, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range									
SXC 6K-3M	3 | 6	1 | 2	1 | 2	20 | 40	7	A		965-228	963-128
SXC 10K-3M	6 | 15	2 | 5	2 | 5	40 | 100	7	A		965-228	963-128
SXC 10K-3LM	6 | 15	2 | 5	2 | 5	40 | 100	8	B		965-228	963-128
SXC 30K-3M	15 | 30	5 | 10	5 | 10	100 | 200	11	B		965-228	963-128
SXC 30K-3LM	15 | 30	5 | 10	5 | 10	100 | 200	12	D		965-228	963-128
SXC 60K-2M	30 | 60	10 | 20	10 | 20	200 | 400	11	C		965-229	963-129
SXC 60K-2LM	30 | 60	10 | 20	10 | 20	200 | 400	12	E		965-229	963-129
SXC 100K-2M	60 | 150	20 | 50	20 | 50	400 | 1000	12	E		965-229	963-129
SXC 100K-2LM	60 | 150	20 | 50	20 | 50	400 | 1000	20	F		965-229	963-129
SXC 300K-2M	150 | 300	50 | 100	50 | 100	1000 | 2000	20	F		965-229	963-129

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

8



PRICE COMPUTING SCALES

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

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

All price computing scales from KERN have three displays showing you all important information at a glance:
- Weight display in kg (verifiable)
- Unit price in €/kg or €/100 g
- Total price in €

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

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

▸ See the Glossary

Quick-Finder Price Computing Scales

Readout [d] g	Weighing range [Max] kg	Model **KERN**	Price on request	Page	M		RS 232		
					For an explanation on the pictos, see the front flap				
0,5 | 1	1,5 | 3	**RPB 3K3DM**		70	○	●	●	●	○
0,5 | 1	1,5 | 3	**RPB 3K3DHM**		70	○	●	●	●	○
1 | 2	3 | 6	**RIB 6K-3M**		69	○	●		●	●
1 | 2	3 | 6	**RIB 6K-3HM**		69	○	●		●	●
1 | 2	3 | 6	**RPB 6K1DM**		70	○	●	●	●	○
1 | 2	3 | 6	**RPB 6K1DHM**		70	○	●	●	●	○
2 | 5	6 | 15	**RIB 10K-3M**		69	○	●		●	●
2 | 5	6 | 15	**RIB 10K-3HM**		69	○	●		●	●
2 | 5	6 | 15	**RPB 15K2DM**		70	○	●	●	●	○
2 | 5	6 | 15	**RPB 15K2DHM**		70	○	●	●	●	○
5 | 10	15 | 30	**RIB 30K-2M**		69	○	●		●	●
5 | 10	15 | 30	**RIB 30K-2HM**		69	○	●		●	●
5 | 10	15 | 30	**RPB 30K5DM**		70	○	●	●	●	○
5 | 10	15 | 30	**RPB 30K5DHM**		70	○	●	●	●	○

● Standard ○ Option









Discover more details and matching accessories online!

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

Features

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

Technical data

- Large backlit LCD displays, digit height 18 mm
- Dimensions weighing surface, stainless steel, W×D 294×225 mm
- Overall dimensions W×D×H
  KERN RIB-M: 325×340×115 mm
  KERN RIB-HM: 325×340×405 mm
- Net weight
  KERN RIB-M: approx. 3,2 kg
  KERN RIB-HM: approx. 3,8 kg
- Permissible ambient temperature -10 °C/40 °C

Main scope of applications

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

Note: Official verification is mandatory for commercial trade

STANDARD | OPTION | FACTORY



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

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




1


2


3

Discover more details and matching accessories online!

8

Retail scale with memories for item prices

Features

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

Technical data

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

Main scope of applications

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

Note: Official verification is mandatory for commercial trade

STANDARD OPTION FACTORY

RS 232 1 DAY DAkkS M

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

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



9

COUNTING SCALES, COUNTING SYSTEMS

Interesting Facts about Counting

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

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

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

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

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

Which Counting Scale for Which Application?

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

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

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

▸ ***See the Glossary***

Quick-Finder Counting Scales/Counting Systems

Readout [d] g	Weighing range [Max] kg	Smallest part weight (Normal) g/piece	Counting resolution Points	**Model** **KERN**	**Price on request**	Page	M				RS 232		
							For an explanation on the pictos, see the front flap						
0,001	6	0,05	1.200.000	**CCS 6K-6**		84		●	●	●	●		○
0,001	15	0,05	3.000.000	**CCS 10K-6**		84		●	●	●	●		○
0,001	0,3	0,01	300.000	**CFS 300-3**		77		●	●	●	●		○
0,001	0,36	0,02	180.000	**CKE 360-3**		78		●	●		○	●	○
0,01	3	0,1	300.000	**CFS 3K-5**		77		●	●	●	●		○
0,01	3,6	0,2	180.000	**CKE 3600-2**		78		●	●		○	●	○
0,01	3 | 6	0,2	300.000	**CCA 6K-5M**		82	○	●	●	●	●		○
0,01	6 | 15	0,2	750.000	**CCA 10K-5M**		82	○	●	●	●	●		○
0,01	15 | 30	0,2	1.500.000	**CCA 30K-5M**		82	○	●	●	●	●		○
0,01	30	0,5	600.000	**CCS 30K0.01.**		84		●	●	●	●		○
0,01	30 | 60	0,2	3.000.000	**CCA 60K-5M**		82	○	●	●	●	●		○
0,01	60	0,5	1.200.000	**CCS 60K0.01.**		84		●	●	●	●		○
0,01	60	0,5	1.200.000	**CCS 60K0.01L.**		84		●	●	●	●		○
0,01	60 | 150	0,2	7.500.000	**CCA 100K-5M**		82	○	●	●	●	●		○
0,01	150	0,5	3.000.000	**CCS 150K0.01**		84		●	●	●	●		○
0,01	150	0,5	3.000.000	**CCS 150K0.01L**		84		●	●	●	●		○
0,02	4	0,2	200.000	**CDS 4K0.02**		80		●	●		○		○
0,02	6	0,2	300.000	**CKE 6K0.02**		78		●	●		○	●	○
0,05	8	0,5	160.000	**CKE 8K0.05**		78		●	●		○	●	○
0,05	15	0,5	300.000	**CDS 15K0.05**		80		●	●		○		○
0,05	16	0,5	320.000	**CKE 16K0.05**		78		●	●		○	●	○
0,1	3 | 6	1	60.000	**CCA 6K-4M**		82	○	●	●	●	●		○
0,1 | 0,2	3 | 6	1	60.000	**IFS 6K-4S**		79		●	●	●	●		○
0,1	6 | 15	1	150.000	**CCA 10K-4M**		82	○	●	●	●	●		○
0,1 | 0,2	6 | 15	2	75.000	**IFS 10K-4**		79		●	●	●	●		○
0,1	6	1	60.000	**CPB 6K0.1N**		76		●		●	●		○
0,1	6	1	60.000	**CFS 6K0.1**		77		●	●	●	●		○
0,1	15 | 30	1	300.000	**CCA 30K-4M**		82	○	●	●	●	●		○
0,1	16	1	160.000	**CKE 16K0.1**		78		●	●		○	●	○
0,1	16	1	160.000	**CDS 16K0.1**		80		●	●		○		○
0,1	30	1	300.000	**CCS 30K0.1.**		84		●	●	●	●		○
0,1	30 | 60	1	600.000	**CCA 60K-4M**		82	○	●	●	●	●		○
0,1	30	1	300.000	**CDS 30K0.1**		80		●	●		○		○
0,1	30	1	300.000	**CDS 30K0.1L**		80		●	●		○		○
0,1	36	1	360.000	**CKE 36K0.1**		78		●	●		○	●	○
0,1	60	1	600.000	**CCS 60K0.1.**		84		●	●	●	●		○
0,1	60	1	600.000	**CCS 60K0.1L.**		84		●	●	●	●		○
0,1	60 | 150	1	1.500.000	**CCA 100K-4M**		82	○	●	●	●	●		○
0,1	150	1	1.500.000	**CCS 150K0.1.**		84		●	●	●	●		○
0,1	150	1	1.500.000	**CCS 150K0.1L**		84		●	●	●	●		○
0,2	3	1	30.000	**CIB 3K-4**		74		●	●	●			●
0,2	3	2	15.000	**CXB 3K0.2**		75		●		●			●
0,2 | 0,5	12 | 30	5	60.000	**IFS 30K0.2DL**		79		●	●	●	●		○
0,2	15	2	75.000	**CFS 15K0.2**		77		●	●	●	●		○
0,2	15	2,5	60.000	**CPB 15K0.2N**		76		●		●	●		○
0,2	36	2	180.000	**CDS 36K0.2L**		80		●	●		○		○
0,2	60	2	300.000	**CDS 60K0.2**		80		●	●		○		○
0,2	65	2	325.000	**CKE 65K0.2**		78		●	●		○	●	○
0,5	6	2	30.000	**CIB 6K-4**		74		●	●	●			●
0,5	6	5	12.000	**CXB 6K0.5**		75		●		●			●
0,5	30	5	60.000	**CPB 30K0.5N**		76		●		●	●		○
0,5	30	5	60.000	**CFS 30K0.5**		77		●	●	●	●		○
0,5 | 1	30 | 60	10	60.000	**IFS 60K0.5D**		79		●	●	●	●		○
0,5 | 1	30 | 60	10	60.000	**IFS 60K0.5DL**		79		●	●	●	●		○
1	3	10	3.000	**CXB 3K1NM**		75	○	●		●			●
1 | 2	3 | 6	1	60.000	**CPB 6K1DM**		76	○	●		●	●		○
1 | 2	3 | 6	1	60.000	**IFS 6K-3SM**		79	○	●	●	●	●		○
1 | 2	3 | 6	1	60.000	**IFS 6K-3M**		79	○	●	●	●	●		○
1	15	5	30.000	**CIB 10K-3**		74		●	●	●			●
1	15	10	15.000	**CXB 15K1**		75		●		●			●
1	50	10	50.000	**CFS 50K-3**		77		●	●	●	●		○
1 | 2	75 | 150	25	60.000	**IFS 100K-3**		79		●	●	●	●		○
1 | 2	75 | 150	25	60.000	**IFS 100K-3L**		79		●	●	●	●		○
2	6	20	3.000	**CXB 6K2NM**		75	○	●		●			●
2 | 5	6 | 15	2	75.000	**IFS 10K-3M**		79	○	●	●	●	●		○
2 | 5	6 | 15	2	75.000	**IFS 10K-3LM**		79	○	●	●	●	●		○
2 | 5	6 | 15	2,5	60.000	**CPB 15K2DM**		76	○	●		●	●		○
2	30	10	30.000	**CIB 30K-3**		74		●	●	●			●
2	30	20	15.000	**CXB 30K2**		75		●		●			●
2 | 5	150 | 300	50	60.000	**IFS 300K-3**		79		●	●	●	●		○
5	15	50	3.000	**CXB 15K5NM**		75	○	●		●			●

● Standard ○ Option

9

Quick-Finder Counting Scales/Counting Systems

Readout [d] g	Weighing range [Max] kg	Smallest part weight (Normal) g/piece	Counting resolution Points	**Model** **KERN**	**Price on request**	Page	M				RS 232		
							For an explanation on the pictos, see the front flap						
5 | 10	15 | 30	5	60.000	**CPB 30K5DM**		76	○	●		●	●	○
5 | 10	15 | 30	5	60.000	**IFS 30K-3M**		79	○	●	●	●	●	○
10	30	100	3.000	**CXB 30K10NM**		75	○	●		●		●
10 | 20	30 | 60	10	60.000	**IFS 60K-2M**		79	○	●	●	●	●	○
10 | 20	30 | 60	10	60.000	**IFS 60K-2LM**		79	○	●	●	●	●	○
20 | 50	60 | 150	25	60.000	**IFS 100K-2M**		79	○	●	●	●	●	○
20 | 50	60 | 150	25	60.000	**IFS 100K-2LM**		79	○	●	●	●	●	○

● Standard ○ Option









Discover more details and matching accessories online!

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

9

Features

- Innovative counting with tolerance range (Checkweighing): The counting process can be supported visually and/or audibly and this therefore makes portion division, dispensing and grading easier
  - visual signal: the colour of the display changes depending on the counting result (not enough/ ok/too much)
  - audible signal: the frequency of the audible signal changes depending on the counting result (not enough/ok/too much)
- Ideal for workshops for people with disabilities, particularly loud or quiet environments, where operators change frequently, etc.
- Three displays for weight display, reference weight, total pieces
- The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Programmable using numerical key pad:
  - required reference quantity
  - known reference weight
- Counting results memory: adds up all individual piece counts, result is shown in total weight and total pieces
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- 20 direct price keys for frequently recurring reference weights and PRE-Tare values
- Memory for 50 reference weights and PRE-Tare values
- Thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations
- Changes from counting mode to weighing mode at the touch of a key
- Energy management: Backlight turns off after 5 sec, can be switched off
- Protective working cover included with delivery

Technical data

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

STANDARD



OPTION



Model	Weighing capacity	Readability	Smallest part weight (Normal)	Counting resolution	Price on request	Options
	[Max]	[d]				Calibr. Certificate DAkkS accr.
KERN	kg	g	g/piece	Points		KERN
CIB 3K-4	3	0,2	1	30.000		963-127
CIB 6K-4	6	0,5	2	30.000		963-128
CIB 10K-3	15	1	5	30.000		963-128
CIB 30K-3	30	2	10	30.000		963-128





Discover more details and matching accessories online!

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

Features

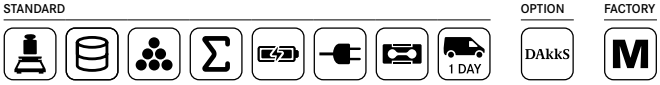
- The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Programmable using numerical key pad:
  - required reference quantity
  - known reference weight
- Three displays for weight display (verifiable), reference weight, total pieces
- Fill-to-target function: Target count or target weight can be programmed. When the target weight is reached there is an audible and visual signal
- 10 memories for reference weights
- Counting results memory: adds up all individual piece counts, result is shown in total weight and total pieces
- Integrated ESD protection, which makes it ideal for weighing small plastic parts
- Energy management: Backlight turns off after 5 sec
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- Changes from counting mode to weighing mode at the touch of a key
- Protective working cover included with delivery

Technical data

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

Note: Official verification is mandatory for commercial trade

STANDARD | OPTION | FACTORY



CXB-NM

Model KERN	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Smallest part weight (Normal) g/piece	Counting resolution Points	Price on request	Options Verification M III KERN		Calibr. Certificate DAkkS accr. KERN
CXB 3K0.2	3	0,2	-	-	2	15.000		-	-	963-127
CXB 6K0.5	6	0,5	-	-	5	12.000		-	-	963-128
CXB 15K1	15	1	-	-	10	15.000		-	-	963-128
CXB 30K2	30	2	-	-	20	15.000		-	-	963-128
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.										
CXB 3K1NM	3	1	1	20	10	3.000		965-227		963-127
CXB 6K2NM	6	2	2	40	20	3.000		965-228		963-128
CXB 15K5NM	15	5	5	100	50	3.000		965-228		963-128
CXB 30K10NM	30	10	10	200	100	3.000		965-228		963-128



Discover more details and matching accessories online!

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

9

Features

- The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Programmable using numerical key pad:
  - required reference quantity
  - known reference weight
- Three displays for weight display (verifiable), reference weight, total pieces
- Counting results memory: adds up all individual piece counts, result is shown in total weight and total pieces
- Fill-to-target function: Target count or target weight can be programmed. When the target value is reached, this will be indicated by an audible signal
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- Thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- Changes from counting mode to weighing mode at the touch of a key
- Protective working cover included with delivery

Technical data

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

Note: Official verification is mandatory for commercial trade

STANDARD | OPTION | FACTORY



CPB-DM

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

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







Discover more details and matching accessories online!

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

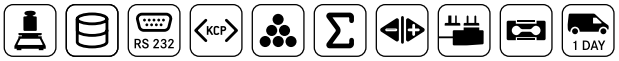
Features

- Memory (PLU) for 100 items with additional text, reference weight and tare weight, e.g. of a container
- The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Programmable using numerical key pad:
  - required reference quantity
  - known reference weight
- Three displays for weight display, reference weight, total pieces
- Weighing with tolerance range: a visual and audible signal helps with portioning, dispensing or grading
- Fill-to-target function: Programmable target quantity or target weight e.g. for check-weighing. A signal will be displayed when the target value is reached
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- Second balance interface to construct a high-resolution counting system, standard, e.g. with weighing bridges of KERN KFP V20
- Draught shield standard for models with weighing plate size A, weighing space W×D×H 155×141×80 mm
- Protective working cover included with delivery, for models with weighing plate size A, B

Technical data

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

STANDARD



OPTION



Model KERN	Weighing capacity [Max] kg	Readability [d] g	Smallest part weight (Normal) g/piece	Counting resolution Points	Net weight approx. kg	Weighing plate	Price on request	Options Calibr. Certificate DAkkS accr. KERN
CFS 300-3	0,3	0,001	0,01	300.000	2,6	A		963-127
CFS 3K-5	3	0,01	0,1	300.000	3,4	B		963-127
CFS 6K0.1	6	0,1	1	60.000	3,2	B		963-128
CFS 15K0.2	15	0,2	2	75.000	3,4	B		963-128
CFS 30K0.5	30	0,5	5	60.000	3,4	B		963-128
CFS 50K-3	50	1	10	50.000	4,4	C		963-128







Discover more details and matching accessories online!

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

9

Features

- Self-explanatory, graphic control panel
  - no learning time = reduces costs
  - ideal for untrained users
  - visualised process avoids operating errors
- The 4 steps are carried out from left to right:
  1 Place the empty container onto the weighing plate and tare by pressing the TARE key
  2 Place the reference quantity for the goods to be counted into the container (5, 10, 20 or any number of pieces)
  3 Confirm the selected reference quantity by pressing the key (5, 10, 20 or any number of pieces)
  4 Pour in the goods to be counted. The number of pieces will immediately be shown in the display
- The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- Changes from counting mode to weighing mode at the touch of a key
- Ring-shaped draught shield standard, only for models with weighing plate size A, weighing space Ø×H 90×40 mm
- Protective working cover included with delivery

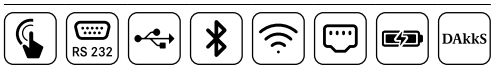
Technical data

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

STANDARD



OPTION



Model KERN	Weighing capacity [Max] kg	Readability [d] g	Smallest part weight (Normal) g/piece	Counting resolution Points	Net weight approx. kg	Weighing plate	Price on request	Options Calibr. Certificate DAkkS accr. KERN
CKE 360-3	0,36	0,001	0,02	180.000	0,85	A		963-127
CKE 3600-2	3,6	0,01	0,2	180.000	1,6	B		963-127
CKE 6K0.02	6	0,02	0,2	300.000	7	C		963-128
CKE 8K0.05	8	0,05	0,5	160.000	7	C		963-128
CKE 16K0.05	16	0,05	0,5	320.000	7	C		963-128
CKE 16K0.1	16	0,1	1	160.000	7	C		963-128
CKE 36K0.1	36	0,1	1	360.000	7	C		963-128
CKE 65K0.2	65	0,2	2	325.000	7	C		963-129





Discover more details and matching accessories online!

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

Features

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

Technical data

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

STANDARD



OPTION



FACTORY



IFS-M

Model KERN	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Smallest part weight (Normal) g/piece	Net weight approx. kg	Weighing plate	Price on request	Options Verification MID KERN	Options Calibr. Certificate DAkkS accr. KERN
Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range										
IFS 6K-4S*	3 | 6	0,1 | 0,2	-	-	1	3,8	A		-	-	963-128
IFS 10K-4	6 | 15	0,1 | 0,2	-	-	2	6	B		-	-	963-128
IFS 30K0.2DL	12 | 30	0,2 | 0,5	-	-	5	7	C		-	-	963-128
IFS 60K0.5D	30 | 60	0,5 | 1	-	-	10	7	C		-	-	963-129
IFS 60K0.5DL	30 | 60	0,5 | 1	-	-	10	12	D		-	-	963-129
IFS 100K-3	75 | 150	1 | 2	-	-	25	12	D		-	-	963-129
IFS 100K-3L	75 | 150	1 | 2	-	-	25	20	E		-	-	963-129
IFS 300K-3	150 | 300	2 | 5	-	-	50	22	E		-	-	963-129
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.										
IFS 6K-3SM*	3 | 6	1 | 2	1 | 2	20 | 40	1	3,8	A		965-228	963-128
IFS 6K-3M	3 | 6	1 | 2	1 | 2	20 | 40	1	5,0	B		965-228	963-128
IFS 10K-3M	6 | 15	2 | 5	2 | 5	40 | 100	2	4,8	B		965-228	963-128
IFS 10K-3LM	6 | 15	2 | 5	2 | 5	40 | 100	2	7	C		965-228	963-128
IFS 30K-3M	15 | 30	5 | 10	5 | 10	100 | 200	5	7	C		965-228	963-128
IFS 60K-2M	30 | 60	10 | 20	10 | 20	200 | 400	10	7	C		965-229	963-129
IFS 60K-2LM	30 | 60	10 | 20	10 | 20	200 | 400	10	13	D		965-229	963-129
IFS 100K-2M	60 | 150	20 | 50	20 | 50	400 | 1000	25	12	D		965-229	963-129
IFS 100K-2LM	60 | 150	20 | 50	20 | 50	400 | 1000	25	22	E		965-229	963-129

! * ONLY WHILE STOCKS LAST







Discover more details and matching accessories online!

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

9

Features

- Self-explanatory, graphic control panel
  - no learning time = reduces costs
  - ideal for untrained users
  - visualised process avoids operating errors
- The 4 steps are carried out from left to right:
  1 Place the empty container onto the weighing plate and tare by pressing the TARE key
  2 Place the reference quantity for the goods to be counted into the container (5, 10 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
- The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- Standardised, simplified concept of operation
- Protective working cover over the display device included with the delivery

Technical data

- Backlit LCD display, digit height 21 mm
- Weighing platform dimensions, stainless steel
  A W×D×H 230×230×103 mm
  B W×D×H 308×318×75 mm, see larger picture
  C W×D×H 500×400×127 mm
- Dimensions of display device W×D×H 225×115×60 mm
- Cable length of display device approx. 2,5 m
- Permissible ambient temperature -10 °C/40 °C

STANDARD



OPTION



Model KERN	Weighing capacity [Max] kg	Readability [d] g	Smallest part weight (Normal) g/piece	Counting resolution Points	Net weight approx. kg	Weighing plate	Price on request	Options Calibr. Certificate DAkkS accr. KERN
CDS 4K0.02	4	0,02	0,2	200.000	8	A		963-127
CDS 15K0.05	15	0,05	0,5	300.000	8	B		963-128
CDS 16K0.1	16	0,1	1	160.000	8	B		963-128
CDS 30K0.1	30	0,1	1	300.000	8	B		963-128
CDS 30K0.1L	30	0,1	1	300.000	19	C		963-128
CDS 36K0.2L	36	0,2	2	180.000	19	C		963-128
CDS 60K0.2	60	0,2	2	300.000	19	C		963-129





VERSATILE PRODUCTS

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

The unbeatable benefits of platform scales:

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

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

For further information on this, see page 130/131.

KERN platform scales – as versatile as your areas of use

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

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

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

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

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



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

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



9

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

Features

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

Reference scale KERN EWJ

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

Quantity scale KERN IFS

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



1

Discover more details and matching accessories online!

Technical data

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

Quantity scale KERN IFS
- Weighing platform dimensions, stainless steel
  A W×D×H 300×240×105 mm
  B W×D×H 400×300×114 mm
  C W×D×H 500×400×140 mm
- Dimensions of display device 250×160×65 mm
- Cable length of display device approx. 3 m

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

Note: Official verification is mandatory for commercial trade

9

STANDARD: EWJ · IFS · IFS · RS 232 in use · EWJ · IFS · EWJ · EWJ · IFS · IFS · EWJ · 2 DAYS
OPTION: EWJ · DAkkS
FACTORY: IFS · M

Model KERN	Quantity scale: Weighing capacity [Max] kg	Quantity scale: Readability [d] g	Weighing plate (Quantity scale)	Reference scale: Weighing capacity [Max] g	Reference scale: Readability [d] g	Smallest part weight (Normal) g/piece	Price on request	Options: Verification KERN	Options: Calibr. Certificate DAkkS accr. KERN
CCA 6K-5M	3 | 6	1 | 2	A	600	0,01	0,2		965-228-216	962-128-127
CCA 6K-4M	3 | 6	1 | 2	A	6000	0,1	1		965-229-216	962-129-127
CCA 10K-5M	6 | 15	2 | 5	A	600	0,01	0,2		965-228-216	962-128-127
CCA 10K-4M	6 | 15	2 | 5	A	6000	0,1	1		965-229-216	962-129-127
CCA 30K-5M	15 | 30	5 | 10	B	600	0,01	0,2		965-228-216	962-128-127
CCA 30K-4M	15 | 30	5 | 10	B	6000	0,1	1		965-229-216	962-129-127
CCA 60K-5M	30 | 60	10 | 20	B	600	0,01	0,2		965-229-216	962-129-127
CCA 60K-4M	30 | 60	10 | 20	B	6000	0,1	1		965-229-216	962-129-127
CCA 100K-5M	60 | 150	20 | 50	C	600	0,01	0,2		965-229-216	962-129-127
CCA 100K-4M	60 | 150	20 | 50	C	6000	0,1	1		965-229-216	962-129-127

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



9

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

Features

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

Reference scale KERN CFS

- This professional counting scale, which can also be used as a stand-alone scale, meets the highest demands for accuracy, weighing capacity and volume of items, by being connected to a high-capacity weighing bridge
- Programmable using numerical key pad:
  - required reference quantity
  - known reference weight
- Three displays for weight display, reference weight, total pieces
- Memory (PLU) for 100 items with additional text, reference weight and tare weight, e.g. of a container
- Fill-to-target function: Target count or target weight can be programmed. When the target weight is reached there is an audible and visual signal
- The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Draught shield standard for models with [d] = 0,001 g, weighing space W×D×H 155×141×80 mm
- Protective working cover included with delivery

Quantity scale KERN KFP / KERN KFU / KERN KIP

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

Platform KERN KFP-V20 IP65

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

Weighing bridge KERN KIP-V20M IP67

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

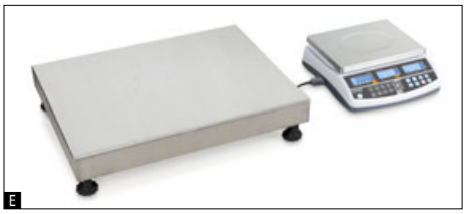
Weighing bridge KERN KFP-V20 IP67

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

U-shaped weighing bridge KERN KFU-V20

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


1


E


F


J

Discover more details and matching accessories online!

Technical data

Reference scale KERN CFS
- Dimensions weighing surface, stainless steel
  1 [d] = 0,001 g: ⌀ 80 mm
  [d] ≥ 0,01 g: W×D 295×225 mm
- Overall dimensions W×D×H 315×350×100 mm
- Net weight
  1 [d] = 0,001 g: approx. 2,6 kg
  [d] ≥ 0,01 g: approx. 3,4 kg

Quantity platforms, KERN KFP-V20 IP65
- Weighing platform dimensions, stainless steel
  A W×D×H 230×230×103 mm
  B W×D×H 300×240×105 mm
  C W×D×H 400×300×114 mm
  D W×D×H 500×400×124 mm
  E W×D×H 650×500×136 mm

Quantity platforms, KERN KIP-V20M
- Weighing platform dimensions, metal, lacquered
  F W×D×H 1000×1000×108 mm
  G W×D×H 1200×1500×108 mm
  H W×D×H 1500×1500×108 mm

Bulk weighing bridges, KERN KFP-V20 IP67
- Weighing platform dimensions, metal, lacquered
  I W×D×H 1500×1250×80 mm

Bulk pallet load handling, KERN KFU-V20
- Weighing platform dimensions, metal, lacquered
  J W×D×H 840×1190×90 mm
- Connection cable approx.
  A-E 3 m
  F-J 5 m

9

STANDARD



E F-J

OPTION



Model	Quantity scale		Weighing plate	Reference scale		Counting resolution	Smallest part weight	Price	Options
	Weighing capacity [Max] kg	Readability [d] g	(Quantity scale)	Weighing capacity [Max] g	Readability [d] g	Points	(Normal) g/piece	on request	Calibr. Certificate DAkkS accr. KERN
CCS 6K-6	6	0,2	A	300	0,001	1.200.000	0,05		962-128-127
CCS 10K-6	15	0,5	B	300	0,001	3.000.000	0,05		962-128-127
CCS 30K0.01.	30	1	C	3000	0,01	600.000	0,5		962-128-127
CCS 30K0.1.	30	1	C	6000	0,1	300.000	1		962-128-128
CCS 60K0.01.	60	2	C	3000	0,01	1.200.000	0,5		962-129-127
CCS 60K0.01L.	60	2	D	3000	0,01	1.200.000	0,5		962-129-127
CCS 60K0.1.	60	2	C	6000	0,1	600.000	1		962-129-128
CCS 60K0.1L.	60	2	D	6000	0,1	600.000	1		962-129-128
CCS 150K0.01	150	5	D	3000	0,01	3.000.000	0,5		962-129-127
CCS 150K0.01L	150	5	E	3000	0,01	3.000.000	0,5		962-129-127
CCS 150K0.1.	150	5	D	6000	0,1	1.500.000	1		962-129-128
CCS 150K0.1L	150	5	E	6000	0,1	1.500.000	1		962-129-128

10



PARCEL SCALES, PLATFORM SCALES

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

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



Digital weighing data – with KERN EasyTouch

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

This is how KERN EasyTouch works:

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

Tip: Turn your balance into a powerful weighing system!

Using the KERN EasyTouch App even a simple single balance can be made into a powerful weighing system, which offers a range of functions. To do this you simply have to install the KERN EasyTouch App on your PC or tablet (Windows® or Android™), connect the balance (either with cable or wireless), activate the App and you will be able to control your balance using your PC or tablet straightaway (see page 125).



Quick-Finder Parcel Scales/Platform Scales

Readability [d] g	Weighing capacity [Max] kg	Weighing plate W×D×H mm	Model KERN	Price on request	Page	M			RS 232		KCP		IP		
						For an explanation on the pictos, see the front flap									
0,01	3	230×230×103	**DS 3K0.01S**		93		●	●	○		●	●			○
0,05	8	308×318×75	**DS 8K0.05**		93		●	●	○		●	●			○
0,1	3	230×230×106	**IFC 3K-4**		100		●	●	○	○	●	●	●		○
0,1	10	230×230×103	**DS 10K0.1S**		93		●	●	○		●	●			○
0,1	16	308×318×75	**DS 16K0.1**		93		●	●	○		●	●			○
0,1	20	308×318×75	**DS 20K0.1**		93		●	●	○		●	●			○
0,1	30	308×318×75	**DS 30K0.1**		93		●	●	○		●	●			○
0,1	30	500×400×127	**DS 30K0.1L**		93		●	●	○		●	●			○
0,1 | 0,2	3 | 6	300×300×110	**IOC 6K-4**		98		●		●	○	●	●	●		○
0,2	6	230×230×106	**IFC 6K-4S**		100		●	●	○	○	●	●	●		○
0,2	6	300×240×109	**IFC 6K-4**		100		●	●	○	○	●	●	●		○
0,2	6	300×240×109	**IXC 6K-4**		102		●		○	○	●	●	●		○
0,2	36	308×318×75	**DS 36K0.2**		93		●	●	○		●	●			○
0,2	36	500×400×127	**DS 36K0.2L**		93		●	●	○		●	●			○
0,2	60	500×400×127	**DS 60K0.2**		93		●	●	○		●	●			○
0,2 | 0,5	6 | 15	318×308×88	**DE 15K0.2D**		94		●		●			●		●	○
0,2 | 0,5	6 | 15	300×300×110	**EOC 10K-4**		96		●		●		●	●	●		○
0,2 | 0,5	6 | 15	300×240×110	**IOC 10K-4**		98		●		●	○	●	●	●		○
0,2 | 0,5	6 | 15	400×300×110	**IOC 10K-4L**		98		●		●	○	●	●	●		○
0,5	6	318×308×75	**DE 6K0.5A**		94		●		●			●		●	○
0,5	6	300×300×110	**EOC 6K-4A**		96		●		●		●	●	●		○
0,5	15	300×240×109	**IFC 10K-4**		100		●	●	○	○	●	●	●		○
0,5	15	400×300×117	**IFC 10K-4L**		100		●	●	○	○	●	●	●		○
0,5	15	300×240×109	**IXC 10K-4**		102		●		○	○	●	●	●		○
0,5	15	400×300×117	**IXC 10K-4L**		102		●		○	○	●	●	●		○
0,5	65	500×400×127	**DS 65K0.5**		93		●	●	○		●	●			○
0,5	100	500×400×127	**DS 100K0.5**		93		●	●	○		●	●			○
0,5 | 1	15 | 35	318×308×88	**DE 35K0.5D**		94		●		●			●		●	○
0,5 | 1	15 | 35	300×300×110	**EOC 30K-4S**		96		●		●		●	●	●		○
0,5 | 1	15 | 35	500×400×120	**EOC 30K-4**		96		●		●		●	●	●		○
0,5 | 1	15 | 30	400×300×110	**IOC 30K-4**		98		●		●	○	●	●	●		○
1	12	318×308×75	**DE 12K1A**		94		●		●			●		●	○
1	12	300×300×110	**EOC 10K-3A**		96		●		●		●	●	●		○
1	30	400×300×117	**IFC 30K-3**		100		●	●	○	○	●	●	●		○
1	30	400×300×117	**IXC 30K-3**		102		●		○	○	●	●	●		○
1	30	500×400×127	**IXC 30K-3L**		102		●		○	○	●	●	●		○
1	150	500×400×127	**DS 150K1**		93		●	●	○		●	●			○
1 | 2	3 | 6	318×308×75	**DE 6K1D**		94		●		●			●		●	○
1 | 2	3 | 6	300×300×110	**EOC 6K-3**		96		●		●		●	●	●		○
1 | 2	3 | 6	300×300×110	**IOC 6K-3M**		98	○	●		●	○	●	●	●		○
1 | 2	3 | 6	230×230×106	**IFC 6K1DSM**		100	○	●	●	○	○	●	●	●		○
1 | 2	3 | 6	300×240×109	**IFC 6K1DM**		100	○	●	●	○	○	●	●	●		○
1 | 2	3 | 6	300×240×109	**IXC 6K-3M**		102	○	●		○	○	●	●	●		○
1 | 2	30 | 60	318×308×88	**DE 60K1D**		94		●		●			●		●	○
1 | 2	30 | 60	522×406×98	**DE 60K1DL**		94		●		●			●		●	○
1 | 2	30 | 60	300×300×110	**EOC 60K-3**		96		●		●		●	●	●		○
1 | 2	30 | 60	500×400×120	**EOC 60K-3L**		96		●		●		●	●	●		○
1 | 2	30 | 60	400×300×110	**IOC 60K-3**		98		●		●	○	●	●	●		○
1 | 2	30 | 60	500×400×120	**IOC 60K-3L**		98		●		●	○	●	●	●		○
2	6	300×240×109	**SFE 6K-3NM**		104	○	●						●		●
2	24	318×308×75	**DE 24K2A**		94		●		●			●		●	○
2	60	400×300×117	**IFC 60K-3**		100		●	●	○	○	●	●	●		○
2	60	500×400×127	**IFC 60K-3L**		100		●	●	○	○	●	●	●		○
2	60	400×300×117	**IXC 60K-3**		102		●		○	○	●	●	●		○
2	60	500×400×127	**IXC 60K-3L**		102		●		○	○	●	●	●		○
2 | 5	6 | 15	318×308×75	**DE 15K2D**		94		●		●			●		●	○
2 | 5	6 | 15	300×240×110	**IOC 10K-3M**		98	○	●		●	○	●	●	●		○
2 | 5	6 | 15	400×300×110	**IOC 10K-3LM**		98	○	●		●	○	●	●	●		○
2 | 5	6 | 15	300×240×109	**IFC 15K2DM**		100	○	●	●	○	○	●	●	●		○
2 | 5	6 | 15	400×300×117	**IFC 15K2DLM**		100	○	●	●	○	○	●	●	●		○
2 | 5	6 | 15	300×240×109	**IXC 10K-3M**		102	○	●		○	○	●	●	●		○
2 | 5	6 | 15	400×300×117	**IXC 10K-3LM**		102	○	●		○	○	●	●	●		○
2 | 5	60 | 150	318×308×88	**DE 150K2D**		94		●		●			●		●	○
2 | 5	60 | 150	522×406×98	**DE 150K2DL**		94		●		●			●		●	○
2 | 5	60 | 150	300×300×110	**EOC 100K-3**		96		●		●		●	●	●		○
2 | 5	60 | 150	500×400×120	**EOC 100K-3L**		96		●		●		●	●	●		○
2 | 5	60 | 150	500×400×120	**IOC 100K-3**		98		●		●	○	●	●	●		○
2 | 5	60 | 150	650×500×150	**IOC 100K-3L**		98		●		●	○	●	●	●		○
5	15	315×305×57	**EOE 10K-3**		90		●					●		●	
5	15	315×305×57	**EOB 15K5**		91		●					●		●	
5	15	300×240×109	**SFE 10K-3NM**		104	○	●						●		●

● Standard ○ Option

10

Quick-Finder Parcel Scales/Platform Scales

Readability [d] g	Weighing capacity [Max] kg	Weighing plate W×D×H mm	Model KERN	Price on request	Page	M			RS 232		KCP		IP		
						For an explanation on the pictos, see the front flap									
5	15	400×300×117	**SFE 10K-3LNM**		104	○	●						●		●
5	60	318×308×75	**DE 60K5A**		94		●		●			●		●	○
5	60	300×300×110	**EOC 60K-3A**		96		●		●		●	●	●		○
5	150	500×400×127	**IFC 150K-3**		100		●	●	○	○	●	●	●		○
5	150	650×500×139	**IFC 150K-3L**		100		●	●	○	○	●	●	●		○
5	150	500×400×127	**IXC 100K-3**		102		●		○	○	●	●	●		○
5	150	650×500×139	**IXC 100K-3L**		102		●		○	○	●	●	●		○
5 | 10	15 | 35	318×308×75	**DE 35K5D**		94		●		●			●		●	○
5 | 10	15 | 35	522×403×83	**DE 35K5DL**		94		●		●			●		●	○
5 | 10	15 | 35	300×300×110	**EOC 30K-3**		96		●		●		●	●	●		○
5 | 10	15 | 35	500×400×120	**EOC 30K-3L**		96		●		●		●	●	●		○
5 | 10	15 | 30	400×300×110	**IOC 30K-3M**		98	○	●		●	○	●	●	●		○
5 | 10	15 | 30	400×300×117	**IFC 30K5DM**		100	○	●	●	○	○	●	●	●		○
5 | 10	15 | 30	400×300×117	**IXC 30K-3M**		102	○	●		○	○	●	●	●		○
5 | 10	15 | 30	500×400×127	**IXC 30K-3LM**		102	○	●		○	○	●	●	●		○
5 | 10	150 | 300	522×406×98	**DE 300K5DL**		94		●		●			●		●	○
5 | 10	150 | 300	500×400×120	**EOC 300K-3**		96		●		●		●	●	●		○
5 | 10	150 | 300	650×500×150	**IOC 300K-3**		98		●		●	○	●	●	●		○
10	30	300×240×109	**SFE 30K-2NM**		104	○	●						●		●
10	35	315×305×57	**EOE 30K-2**		90		●					●		●	
10	35	315×305×57	**EOB 35K10**		91		●					●		●	
10	120	318×308×75	**DE 120K10A**		94		●		●			●		●	○
10	120	500×400×120	**EOC 100K-2A**		96		●		●		●	●	●		○
10	300	650×500×139	**IFC 300K-2**		100		●	●	○	○	●	●	●		○
10	300	650×500×139	**IXC 300K-3**		102		●		○	○	●	●	●		○
10 | 20	30 | 60	318×308×75	**DE 60K10D**		94		●		●			●		●	○
10 | 20	30 | 60	522×403×83	**DE 60K10DL**		94		●		●			●		●	○
10 | 20	30 | 60	300×300×110	**EOC 60K-2**		96		●		●		●	●	●		○
10 | 20	30 | 60	500×400×120	**EOC 60K-2L**		96		●		●		●	●	●		○
10 | 20	30 | 60	400×300×110	**IOC 60K-2M**		98	○	●		●	○	●	●	●		○
10 | 20	30 | 60	500×400×120	**IOC 60K-2LM**		98	○	●		●	○	●	●	●		○
10 | 20	30 | 60	400×300×117	**IFC 60K10DM**		100	○	●	●	○	○	●	●	●		○
10 | 20	30 | 60	500×400×127	**IFC 60K10DLM**		100	○	●	●	○	○	●	●	●		○
10 | 20	30 | 60	400×300×117	**IXC 60K-2M**		102	○	●		○	○	●	●	●		○
10 | 20	30 | 60	500×400×127	**IXC 60K-2LM**		102	○	●		○	○	●	●	●		○
10 | 20	300 | 600	800×600×155	**IOC 600K-2**		98		●		●	○	●	●	●		○
20	60	315×305×57	**EOE 60K-2**		90		●					●		●	
20	60	550×550×58	**EOE 60K-2L**		90		●					●		●	
20	60	315×305×57	**EOB 60K20**		91		●					●		●	
20	60	550×550×58	**EOB 60K20L**		91		●					●		●	
20	60	400×300×117	**SFE 60K-2NM**		104	○	●						●		●
20	60	500×400×127	**SFE 60K-2LNM**		104	○	●						●		●
20	600	800×600×192	**IFC 600K-2**		100		●	●	○	○	●	●	●		○
20 | 50	60 | 150	318×308×75	**DE 150K20D**		94		●		●			●		●	○
20 | 50	60 | 150	522×403×83	**DE 150K20DL**		94		●		●			●		●	○
20 | 50	60 | 150	650×500×89	**DE 150K20DXL**		94		●		●			●		●	○
20 | 50	60 | 150	300×300×110	**EOC 100K-2**		96		●		●		●	●	●		○
20 | 50	60 | 150	500×400×120	**EOC 100K-2L**		96		●		●		●	●	●		○
20 | 50	60 | 150	600×500×150	**EOC 100K-2XL**		96		●		●		●	●	●		○
20 | 50	60 | 150	950×500×60	**EOC 100K-2XXL**		96		●		●		●	●	●		○
20 | 50	60 | 150	500×400×120	**IOC 100K-2M**		98	○	●		●	○	●	●	●		○
20 | 50	60 | 150	650×500×150	**IOC 100K-2LM**		98	○	●		●	○	●	●	●		○
20 | 50	60 | 150	500×400×127	**IFC 150K20DM**		100	○	●	●	○	○	●	●	●		○
20 | 50	60 | 150	650×500×139	**IFC 150K20DLM**		100	○	●	●	○	○	●	●	●		○
20 | 50	60 | 150	500×400×127	**IXC 100K-2M**		102	○	●		○	○	●	●	●		○
20 | 50	60 | 150	650×500×139	**IXC 100K-2LM**		102	○	●		○	○	●	●	●		○
50	150	315×305×57	**EOE 100K-2**		90		●					●		●	
50	150	550×550×58	**EOE 150K50L**		90		●					●		●	
50	150	950×500×58	**EOE 150K50XL**		90		●					●		●	
50	150	315×305×57	**EOB 150K50**		91		●					●		●	
50	150	550×550×58	**EOB 150K50L**		91		●					●		●	
50	150	950×500×58	**EOB 150K50XL**		91		●					●		●	
50	150	950×500×58	**EOS 150K50XL**		92		●					●		●	
50	150	400×300×117	**SFE 100K-2NM**		104	○	●						●		●
50	150	500×400×127	**SFE 100K-2LNM**		104	○	●						●		●
50	150	650×500×139	**SFE 100K-2XLNM**		104	○	●						●		●
50 | 100	150 | 300	522×403×83	**DE 300K50D**		94		●		●			●		●	○
50 | 100	150 | 300	650×500×90	**DE 300K50DL**		94		●		●			●		●	○
50 | 100	150 | 300	500×400×120	**EOC 300K-2**		96		●		●		●	●	●		○
50 | 100	150 | 300	600×500×150	**EOC 300K-2L**		96		●		●		●	●	●		○
50 | 100	150 | 300	650×500×150	**IOC 300K-2M**		98	○	●		●	○	●	●	●		○

● Standard ○ Option

Quick-Finder Parcel Scales/Platform Scales

Readability [d] g	Weighing capacity [Max] kg	Weighing plate W×D×H mm	**Model** **KERN**	**Price on request**	Page	M			RS 232		KCP		IP		
						For an explanation on the pictos, see the front flap									
50 | 100	150 | 300	650×500×139	**IFC 300K50DM**		100	○	●	●	○	○	●	●	●		○
50 | 100	150 | 300	650×500×139	**IXC 300K-2M**		102	○	●		○	○	●	●	●		○
100	300	315×305×57	**EOE 300K100**		90		●					●		●	
100	300	550×550×58	**EOE 300K100L**		90		●					●		●	
100	300	950×500×58	**EOE 300K100XL**		90		●					●		●	
100	300	315×305×57	**EOB 300K100A**		91		●					●		●	
100	300	550×550×58	**EOB 300K100L**		91		●					●		●	
100	300	950×500×58	**EOB 300K100XL**		91		●					●		●	
100	300	950×500×58	**EOS 300K100XL**		92		●							●	
100	300	650×500×139	**SFE 300K-1LNM**		104	○	●						●		●
100 | 200	300 | 600	800×600×151	**IOC 600K-1M**		98	○	●		●	○	●	●	●		○
100 | 200	300 | 600	800×600×192	**IFC 600K100DM**		100	○	●	●	○	○	●	●	●		○

● Standard ○ Option

10







Discover more details and matching accessories online!

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

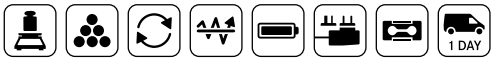
Features

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

Technical data

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

STANDARD



OPTION



Model KERN	Weighing capacity [Max] kg	Readability [d] g	Reproducibility g	Linearity g	Net weight approx. kg	Weighing plate	Price on request	Options Calibr. Certificate DAkkS accr. KERN
EOE 10K-3	15	5	5	± 10	4,0	A		963-128
EOE 30K-2	35	10	10	± 20	4,0	A		963-128
EOE 60K-2	60	20	20	± 40	4,0	A		963-129
EOE 60K-2L	60	20	20	± 40	14	B		963-129
EOE 100K-2	150	50	50	± 100	4,0	A		963-129
EOE 150K50L	150	50	50	± 100	14	B		963-129
EOE 150K50XL	150	50	50	± 100	18	C		963-129
EOE 300K100	300	100	100	± 200	4,0	A		963-129
EOE 300K100L	300	100	100	± 200	14	B		963-129
EOE 300K100XL	300	100	100	± 200	18	C		963-129







Discover more details and matching accessories online!

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

Features

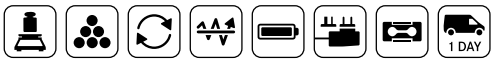
- Weighing plate stainless steel, painted steel base
- Simple and convenient 4-key operation
- Wall mount for display device, standard
- Hold function: When the weighing conditions are unstable, a stable weight is calculated determining an average value
- Protective working cover included with delivery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

Technical data

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

10

STANDARD



OPTION



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







Discover more details and matching accessories online!

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

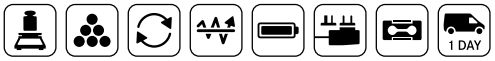
Features

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

Technical data

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

STANDARD



OPTION



Model	Weighing capacity	Readability	Reproducibility	Linearity	Net weight	Price on request	Options
							Calibr. Certificate
KERN	[Max] kg	[d] g	g	g	approx. kg		DAkkS accr. KERN
EOS 150K50XL	150	50	50	± 100	19		963-129
EOS 300K100XL	300	100	100	± 200	19		963-129




A


B

Discover more details and matching accessories online!

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

Features

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

Technical data

- Large backlit LCD display, digit height 21 mm
- Weighing platform dimensions, stainless steel
  - A W×D×H 230×230×103 mm
  - B W×D×H 308×318×75 mm
  - C W×D×H 500×400×127 mm, see larger picture
- Dimensions of display device W×D×H 225×115×60 mm
- Cable length of display device approx. 2,5 m
- Permissible ambient temperature -10 °C/40 °C

STANDARD

OPTION

Model KERN	Weighing capacity [Max] kg	Readability [d] g	Smallest part weight (Normal) g/piece	Resolution Points	Net weight approx. kg	Weighing plate	Price on request	Options Calibr. Certificate DAkkS accr. KERN
DS 3K0.01S	3	0,01	0,1	300.000	4,2	A		963-127
DS 8K0.05	8	0,05	0,5	160.000	8	B		963-128
DS 10K0.1S	10	0,1	1	100.000	4,2	A		963-128
DS 16K0.1	16	0,1	1	160.000	8	B		963-128
DS 20K0.1	20	0,1	1	200.000	8	B		963-128
DS 30K0.1	30	0,1	1	300.000	8	B		963-128
DS 30K0.1L	30	0,1	2	300.000	19	C		963-128
DS 36K0.2	36	0,2	1	180.000	10	B		963-128
DS 36K0.2L	36	0,2	2	180.000	19	C		963-128
DS 60K0.2	60	0,2	2	300.000	19	C		963-129
DS 65K0.5	65	0,5	5	130.000	19	C		963-129
DS 100K0.5	100	0,5	5	200.000	19	C		963-129
DS 150K1	150	1	10	150.000	19	C		963-129



Versatile, successful model with stainless steel platform for flexible use

10



Animal weighing



Recipe-weighing



Piece counting


A


E

Discover more details and matching accessories online!

Features

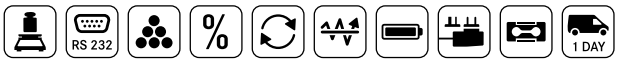
- Thanks to battery operation/rechargeable battery operation (optional), compact, light-weight construction, it is suitable for the use in several locations
- Display device: plastic, flexible positioning
- Weighing plate stainless steel, painted steel base
- PRE-TARE function for manual subtraction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

Technical data

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

10

STANDARD



OPTION



Model KERN	Weighing capacity [Max] kg	Readability [d] g	Repro-ducibility g	Linearity g	Smallest part weight (Normal) g/piece	Cable length approx. m	Net weight approx. kg	Weighing plate	Price on request	Options Calibr. Certificate DAkkS accr. KERN
Multi-division balance with high resolution readability, with increasing or decreasing load, it switches automatically to the next largest or smallest weighing range [Max] and readout [d].										
DE 15K0.2D	6 | 15	0,2 | 0,5	0,2 | 0,5	± 0,8 | 2	2	1	4,0	B		963-128
DE 35K0.5D	15 | 35	0,5 | 1	0,5 | 1	± 2 | 4	5	1	7	B		963-128
DE 60K1D	30 | 60	1 | 2	1 | 2	± 4 | 8	10	1,47	7	B		963-129
DE 60K1DL	30 | 60	1 | 2	1 | 2	± 4 | 8	10	1,4	15	D		963-129
DE 150K2D	60 | 150	2 | 5	2 | 5	± 8 | 20	20	1,6	7	B		963-129
DE 150K2DL	60 | 150	2 | 5	2 | 5	± 8 | 20	20	1,4	15	D		963-129
DE 300K5DL	150 | 300	5 | 10	5 | 10	± 20 | 40	50	1,4	15	D		963-129
Multi-division balance without high resolution readability										
DE 6K1D	3 | 6	1 | 2	1 | 2	± 3 | 6	10	1,4	4,8	A		963-128
DE 15K2D	6 | 15	2 | 5	2 | 5	± 6 | 15	20	1,4	4,8	A		963-128
DE 35K5D	15 | 35	5 | 10	5 | 10	± 15 | 30	50	1,4	4,8	A		963-128
DE 35K5DL	15 | 35	5 | 10	5 | 10	± 15 | 30	100	1,4	16	C		963-128
DE 60K10D	30 | 60	10 | 20	10 | 20	± 30 | 60	100	1,4	4,8	A		963-129
DE 60K10DL	30 | 60	10 | 20	10 | 20	± 30 | 60	100	1,4	16	C		963-129
DE 150K20D	60 | 150	20 | 50	20 | 50	± 60 | 150	200	1,5	5,0	A		963-129
DE 150K20DL	60 | 150	20 | 50	20 | 50	± 60 | 150	200	1,5	16	C		963-129
DE 150K20DXL	60 | 150	20 | 50	20 | 50	± 60 | 150	200	1,4	19	E		963-129
DE 300K50DL	150 | 300	50 | 100	50 | 100	± 150 | 300	500	1,05	17	E		963-129
DE 300K50D	150 | 300	50 | 100	50 | 100	± 150 | 300	500	1,25	16	C		963-129
DE 6K0.5A	6	0,5	0,5	± 1,5	5	1,4	4,8	A		963-128
DE 12K1A	12	1	1	± 3	10	1,4	4,8	A		963-128
DE 24K2A	24	2	2	± 6	20	1,4	4,8	A		963-128
DE 60K5A	60	5	5	± 15	50	1,4	4,8	A		963-129
DE 120K10A	120	10	10	± 30	100	1,4	5,0	A		963-129



10

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



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



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


1

Discover more details and matching accessories online!

Features

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

Technical data

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

10

STANDARD

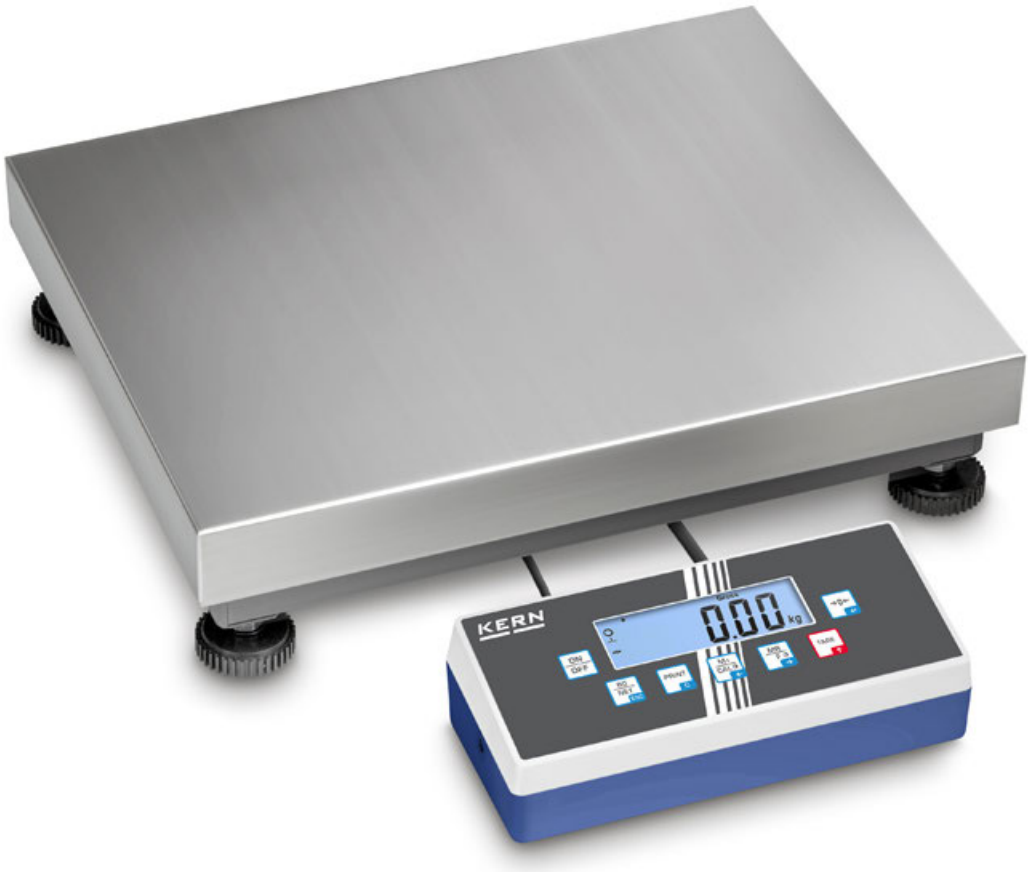


OPTION



Model	Weighing capacity [Max]	Readability [d]	Repro-ducibility	Linearity	Smallest part weight (Normal)	Cable length approx.	Net weight approx.	Weighing plate	Price on request	Options Calibr. Certificate DAkkS accr.
KERN	kg	g	g	g	g/piece	m	kg			KERN
Multi-range balance with high-resolution display, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range										
EOC 10K-4	6 | 15	0,2 | 0,5	0,2 | 0,5	± 0,6 | 1,5	5	3	6	A		963-128
EOC 30K-4S	15 | 35	0,5 | 1	0,5 | 1	± 1,5 | 3	10	3	6	A		963-128
EOC 30K-4	15 | 35	0,5 | 1	0,5 | 1	± 1,5 | 3	10	3	9	B		963-128
EOC 60K-3	30 | 60	1 | 2	1 | 2	± 3 | 6	20	3	7	A		963-129
EOC 60K-3L	30 | 60	1 | 2	1 | 2	± 3 | 6	20	3	9	B		963-129
EOC 100K-3	60 | 150	2 | 5	2 | 5	± 6 | 15	50	3	6	A		963-129
EOC 100K-3L	60 | 150	2 | 5	2 | 5	± 6 | 15	50	3	9	B		963-129
EOC 300K-3	150 | 300	5 | 10	5 | 10	± 15 | 30	100	3	9	B		963-129
Multi-range balance without high-resolution display										
EOC 6K-3	3 | 6	1 | 2	1 | 2	± 3 | 6	20	3	6	A		963-128
EOC 30K-3	15 | 35	5 | 10	5 | 10	± 15 | 30	100	3	6	A		963-128
EOC 30K-3L	15 | 35	5 | 10	5 | 10	± 15 | 30	100	3	9	B		963-128
EOC 60K-2	30 | 60	10 | 20	10 | 20	± 30 | 60	200	3	7	A		963-129
EOC 60K-2L	30 | 60	10 | 20	10 | 20	± 30 | 60	200	3	9	B		963-129
EOC 100K-2	60 | 150	20 | 50	20 | 50	± 60 | 150	500	3	6	A		963-129
EOC 100K-2L	60 | 150	20 | 50	20 | 50	± 60 | 150	500	3	9	B		963-129
EOC 100K-2XL	60 | 150	20 | 50	20 | 50	± 60 | 150	500	3	19	C		963-129
EOC 100K-2XXL	60 | 150	20 | 50	20 | 50	± 60 | 150	500	2,7*	17	D		963-129
EOC 300K-2	150 | 300	50 | 100	50 | 100	± 150 | 300	1000	3	9	B		963-129
EOC 300K-2L	150 | 300	50 | 100	50 | 100	± 150 | 300	1000	3	19	C		963-129
EOC 6K-4A**	6	0,5	0,5	± 1,5	5	3	6	A		963-128
EOC 10K-3A**	12	1	1	± 3	10	3	7	A		963-128
EOC 60K-3A**	60	5	5	± 15	50	3	7	A		963-129
EOC 100K-2A**	120	10	10	± 30	100	3	9	B		963-129

* Spiral cable, ! **ONLY WHILE STOCKS LAST



10

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



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

Features

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

Technical data

- Large LCD display, digit height 25 mm
- Weighing platform dimensions W×D×H, stainless steel
  - A 300×240×110 mm
  - B 300×300×110 mm
  - C 400×300×110 mm
  - D 500×400×120 mm
  - E 650×500×150 mm
  - F 800×600×155 mm
- Dimensions of display device W×D×H 268×115×80 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C

Discover more details and matching accessories online!

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

10

STANDARD: RS 232 | KCP | IP 65 | 1 DAY | 2 DAYS F

OPTION: DAkkS

FACTORY: 1 | 2 | 2 | 2

Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Net weight approx.	Weighing plate	Price on request	Options: Verification	Options: Calibr. Certificate
KERN	kg	g	g	g	kg			M III KERN	DAkkS accr. KERN
Multi-range balance with high-resolution display, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range									
IOC 6K-4	3 | 6	0,1 | 0,2	-	20 | 40	6	B		-	963-128
IOC 10K-4	6 | 15	0,2 | 0,5	-	40 | 100	6	A		-	963-128
IOC 10K-4L	6 | 15	0,2 | 0,5	-	40 | 100	8	C		-	963-128
IOC 30K-4	15 | 30	0,5 | 1	-	100 | 200	8	C		-	963-128
IOC 60K-3	30 | 60	1 | 2	-	200 | 400	8	C		-	963-129
IOC 60K-3L	30 | 60	1 | 2	-	200 | 400	12	D		-	963-129
IOC 100K-3	60 | 150	2 | 5	-	400 | 1000	12	D		-	963-129
IOC 100K-3L	60 | 150	2 | 5	-	400 | 1000	22	E		-	963-129
IOC 300K-3	150 | 300	5 | 10	-	1000 | 2000	22	E		-	963-129
IOC 600K-2*	300 | 600	10 | 20	-	2000 | 4000	32	F		-	963-130
Multi-range balance without high-resolution display									
IOC 6K-3M	3 | 6	1 | 2	1 | 2	20 | 40	6	B		965-228	963-128
IOC 10K-3M	6 | 15	2 | 5	2 | 5	40 | 100	6	A		965-228	963-128
IOC 10K-3LM	6 | 15	2 | 5	2 | 5	40 | 100	8	C		965-228	963-128
IOC 30K-3M	15 | 30	5 | 10	5 | 10	100 | 200	8	C		965-228	963-128
IOC 60K-2M	30 | 60	10 | 20	10 | 20	200 | 400	8	C		965-229	963-129
IOC 60K-2LM	30 | 60	10 | 20	10 | 20	200 | 400	12	D		965-229	963-129
IOC 100K-2M	60 | 150	20 | 50	20 | 50	400 | 1000	12	D		965-229	963-129
IOC 100K-2LM	60 | 150	20 | 50	20 | 50	400 | 1000	22	E		965-229	963-129
IOC 300K-2M	150 | 300	50 | 100	50 | 100	1000 | 2000	22	E		965-229	963-129
IOC 600K-1M	300 | 600	100 | 200	100 | 200	2000 | 4000	32	F		965-230	963-130

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

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

! *ONLY WHILE STOCKS LAST



10

Robust industrial scales with up to three interfaces, with optional verification

Features

- Tough industry standard suitable for use in harsh industrial applications
- Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay. Available as an option: RS-232, USB, Ethernet, WiFi, Bluetooth
- Each interface can be set up separately, e.g.:
  - Interface 1 (WiFi): Continuous sending to a PC for documentation of a process
  - Interface 2 (RS-232): Print stable weight
  - Interface 3 (analogue module): Controlling a device when the target weight is reached
- With Real Time Clock as standard: Enables you to log the weighing results with accurate time information. Even if the power supply is interrupted, the balance can continue to work with the correct time
- Available as an option with alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- Simplified battery replacement through easily-accessible housing. Particularly advantageous for models with optional verification, as the verification seal remains intact
- Platform: weighing plate of stainless steel, painted steel base, silicone-coated aluminium load cell with protection against dust and water splashes IP65 (F IP65)
- Benchtop stand incl. wall mount for display device as standard
- Protective working cover included with delivery


A


F

Discover more details and matching accessories online!

Technical data

- Large backlit LCD display, digit height 48 mm
- Weighing platform dimensions
  - A W×D×H 230×230×106 mm
  - B W×D×H 300×240×109 mm
  - C W×D×H 400×300×117 mm (see larger picture)
  - D W×D×H 500×400×127 mm
  - E W×D×H 650×500×139 mm
  - F W×D×H 800×600×192 mm
- Dimensions of display device W×D×H 220×150×66,5 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C

STANDARD



A - E F A - E F

OPTION



* * * * * *

FACTORY



IFC-M

Model KERN	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Net weight approx. kg	Weighing plate	Price on request	Options Verification KERN		Options Calibr. Certificate DAkkS accr. KERN
IFC 3K-4	3	0,1	-	-	4,6	A		-	-	963-127
IFC 6K-4S	6	0,2	-	-	4,6	A		-	-	963-128
IFC 6K-4	6	0,2	-	-	6	B		-	-	963-128
IFC 10K-4	15	0,5	-	-	6	B		-	-	963-128
IFC 10K-4L	15	0,5	-	-	8	C		-	-	963-128
IFC 30K-3	30	1	-	-	8	C		-	-	963-128
IFC 60K-3	60	2	-	-	7	C		-	-	963-129
IFC 60K-3L	60	2	-	-	10	D		-	-	963-129
IFC 150K-3	150	5	-	-	11	D		-	-	963-129
IFC 150K-3L	150	5	-	-	18	E		-	-	963-129
IFC 300K-2	300	10	-	-	18	E		-	-	963-129
IFC 600K-2	600	20	-	-	40	F		-	-	963-130
Multi-division balance, with increasing or decreasing load, it switches automatically to the next largest or smallest weighing range [Max] and readout [d].										
IFC 6K1DSM	3 | 6	1 | 2	1 | 2	20 | 40	4,8	A		965-228		963-128
IFC 6K1DM	3 | 6	1 | 2	1 | 2	20 | 40	6	B		965-228		963-128
IFC 15K2DM	6 | 15	2 | 5	2 | 5	40 | 100	5,0	B		965-228		963-128
IFC 15K2DLM	6 | 15	2 | 5	2 | 5	40 | 100	7	C		965-228		963-128
IFC 30K5DM	15 | 30	5 | 10	5 | 10	100 | 200	8	C		965-228		963-128
IFC 60K10DM	30 | 60	10 | 20	10 | 20	200 | 400	7	C		965-229		963-129
IFC 60K10DLM	30 | 60	10 | 20	10 | 20	200 | 400	10	D		965-229		963-129
IFC 150K20DM	60 | 150	20 | 50	20 | 50	400 | 1000	10	D		965-229		963-129
IFC 150K20DLM	60 | 150	20 | 50	20 | 50	400 | 1000	18	E		965-229		963-129
IFC 300K50DM	150 | 300	50 | 100	50 | 100	1000 | 2000	18	E		965-229		963-129
IFC 600K100DM	300 | 600	100 | 200	100 | 200	2000 | 4000	40	F		965-230		963-130

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



10

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

Features

- Tough industry standard suitable for use in harsh industrial applications
- Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- The exchange of data and control commands is optional using up to four interfaces to suit individual requirements: two wired connections (RS-232, Ethernet, USB or analogue module) and two wireless connections (WiFi, Bluetooth)
- Each interface can be set up separately, e.g.:
  - Interface 1 (WiFi): Continuous sending to a PC for documentation of a process
  - Interface 2 (RS-232): Print stable weight
  - Interface 3 (analogue module): Controlling a device when the target weight is reached
  - Interface 4 (Bluetooth): Continuous sending to a tablet to monitor a process
- Available as an option with alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- Platform: weighing plate of stainless steel, painted steel base, silicone-coated aluminium load cell with protection against dust and water splashes IP65
- Display device: stainless steel, protection against dust and water splashes IP68, integrated power supply
- Superior display size: digit height 48 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions





Discover more details and matching accessories online!

Technical data

- Large backlit LCD display, digit height 48 mm
- Weighing platform dimensions, stainless steel
  - A W×D×H 300×240×109 mm
  - B W×D×H 400×300×117 mm, see larger picture
  - C W×D×H 500×400×127 mm
  - D W×D×H 650×500×139 mm
- Dimensions of display device W×D×H 232×150×77,3 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C

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

10

STANDARD

OPTION

FACTORY

IXC-M

Model KERN	Weighing capacity [Max] kg	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Net weight approx. kg	Weighing plate	Price on request	Options: Verification KERN	Options: Calibr. Certificate DAkkS accr. KERN
IXC 6K-4	6	0,2	-	-	6	A		- -	963-128
IXC 10K-4	15	0,5	-	-	6	A		- -	963-128
IXC 10K-4L	15	0,5	-	-	7	B		- -	963-128
IXC 30K-3	30	1	-	-	8	B		- -	963-128
IXC 30K-3L	30	1	-	-	11	C		- -	963-128
IXC 60K-3	60	2	-	-	7	B		- -	963-129
IXC 60K-3L	60	2	-	-	11	C		- -	963-129
IXC 100K-3	150	5	-	-	11	C		- -	963-129
IXC 100K-3L	150	5	-	-	19	D		- -	963-129
IXC 300K-3	300	10	-	-	20	D		- -	963-129
Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range									
IXC 6K-3M	3 | 6	1 | 2	1 | 2	20 | 40	6	A		965-228	963-128
IXC 10K-3M	6 | 15	2 | 5	2 | 5	40 | 100	6	A		965-228	963-128
IXC 10K-3LM	6 | 15	2 | 5	2 | 5	40 | 100	7	B		965-228	963-128
IXC 30K-3M	15 | 30	5 | 10	5 | 10	100 | 200	7	B		965-228	963-128
IXC 30K-3LM	15 | 30	5 | 10	5 | 10	100 | 200	11	C		965-228	963-128
IXC 60K-2M	30 | 60	10 | 20	10 | 20	200 | 400	7	B		965-229	963-129
IXC 60K-2LM	30 | 60	10 | 20	10 | 20	200 | 400	11	C		965-229	963-129
IXC 100K-2M	60 | 150	20 | 50	20 | 50	400 | 1000	11	C		965-229	963-129
IXC 100K-2LM	60 | 150	20 | 50	20 | 50	400 | 1000	18	D		965-229	963-129
IXC 300K-2M	150 | 300	50 | 100	50 | 100	1000 | 2000	20	D		965-229	963-129

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











Discover more details and matching accessories online!

Platform scale with IP65 dust and spray protection, verification optional

Features

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

Technical data

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

STANDARD



OPTION

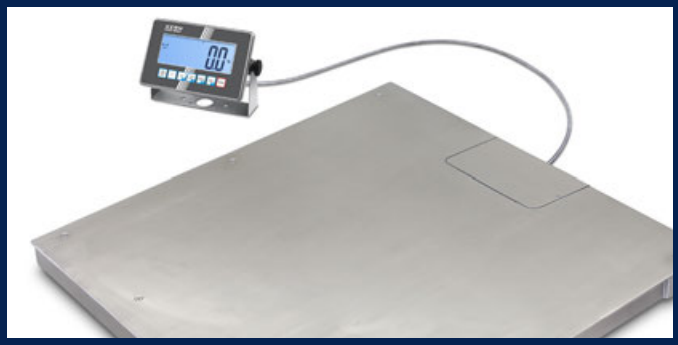


FACTORY



Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Net weight approx.	Weighing plate	Price on request	Options	
								Verification	Calibr. Certificate
KERN	kg	g	g	g	kg			KERN	DAkkS accr. KERN
SFE 6K-3NM	6	2	2	40	6	A		965-228	963-128
SFE 10K-3NM	15	5	5	100	6	A		965-228	963-128
SFE 10K-3LNM	15	5	5	100	8	B		965-228	963-128
SFE 30K-2NM	30	10	10	200	6	A		965-228	963-128
SFE 60K-2NM	60	20	20	400	8	B		965-229	963-129
SFE 60K-2LNM	60	20	20	400	12	C		965-229	963-129
SFE 100K-2NM	150	50	50	1000	8	B		965-229	963-129
SFE 100K-2LNM	150	50	50	1000	12	C		965-229	963-129
SFE 100K-2XLNM	150	50	50	1000	22	D		965-229	963-129
SFE 300K-1LNM	300	100	100	2000	22	D		965-229	963-129

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



11

FLOOR SCALES, PALLET SCALES, DRIVE-THROUGH SCALES

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

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

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

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

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

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

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

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

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

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

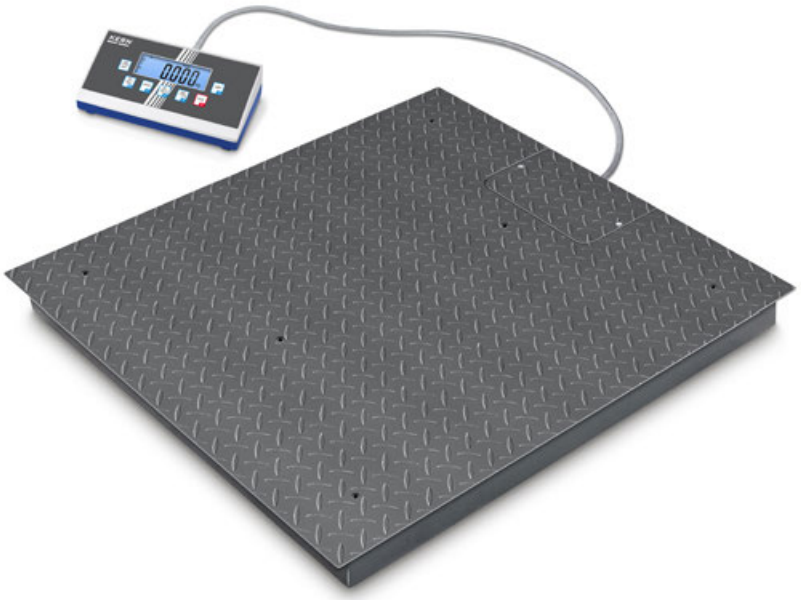
If you have special requirements, you can also configure your ideal scale easily and quickly so that it meets your needs. We will put your weighing combination together for you, using the components you have selected and including verification. Please contact your personal customer advisor for further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

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

Readability [d] g	Weighing capacity [Max] kg	Weighing plate W×D×H mm	Model **KERN**	Price on request	Page	M	RS 232	USB	Bluetooth	WiFi	Ethernet	KCP	Cluster	Bidirectional	Battery
						For an explanation on the pictos, see the front flap									
20 | 50	500 | 1000	1000×1000×85	**BFC 1T-5DS**		110		○	○	○	○	○	●	●	●	○
20 | 50	500 | 1000	1500×1250×85	**BFC 1T-5D**		110		○	○	○	○	○	●	●	●	○
50 | 100	300 | 600	1000×1000×108	**BID 600K-1DS**		108		●	○		○	○	●	●	●	○
50 | 100	300 | 600	1200×1500×108	**BID 600K-1D**		108		●	○		○	○	●	●	●	○
50 | 100	1000 | 2000	1000×1000×85	**BFC 2T-5DS**		110		○	○	○	○	○	●	●	●	○
50 | 100	1000 | 2000	1500×1250×85	**BFC 2T-5D**		110		○	○	○	○	○	●	●	●	○
100	300	1000×1000×40	**NIB 300K-1**		118										
100 | 200	300 | 600	1000×1000×108	**BIC 600K-1S**		107										
100 | 200	300 | 600	1000×1000×108	**BID 600K-1DSM**		108	○	●	○		○	○	●	●	●	○
100 | 200	300 | 600	1195×840×110	**UID 600K-1DM**		115	○	●	○		○	○	●	●	●	○
100 | 200	300 | 600	1200×1500×108	**BIC 600K-1**		107										
100 | 200	300 | 600	1200×1500×108	**BID 600K-1DM**		108	○	●	○		○	○	●	●	●	○
100 | 200	600 | 1500	1000×1000×108	**BID 1T-4DS**		108		●	○		○	○	●	●	●	○
100 | 200	600 | 1500	1200×1500×108	**BID 1T-4D**		108		●	○		○	○	●	●	●	○
100 | 200	2000 | 4000	1500×1250×85	**BFC 4T-4D**		110		○	○	○	○	○	●	●	●	○
100 | 200	2000 | 4000	1500×1500×85	**BFC 4T-4DL**		110		○	○	○	○	○	●	●	●	○
200	600	870×170×83	**UFA 600K-1S**		113		●		○			●	●	●	○
200	600	1000×1000×40	**NIB 600K-2**		118										
200	600	1000×1000×85	**BFC 600K-1SM**		110	○	○	○	○	○	○	●	●	●	○
200	600	1000×1000×85	**BXC 600K-1SM**		112	○	○	○	○	○	○	●	●		○
200	600	1000×1000×108	**BID 600K-1SM**		108	○	●	○		○	○	●	●	●	○
200	600	1195×840×110	**UIB 600K-1**		114										
200	600	1195×840×110	**UID 600K-1M**		115	○	●	○		○	○	●	●	●	○
200	600	1200×1500×108	**BID 600K-1M**		108	○	●	○		○	○	●	●	●	○
200	600	1361×840×80	**UFC 600K-1M**		116	○	○	○	○	○	○	●	●	●	○
200	600	1361×840×80	**UXC 600K-1M**		117	○	○	○	○	○	○	●	●		○
200	600	1500×1250×85	**BFC 600K-1M**		110	○	○	○	○	○	○	●	●	●	○
200	600	1600×1220×95	**NFC 600K-1M**		119	○	○	○	○	○	○	●	●	●	○
200	600	1600×1220×95	**NXC 600K-1M**		120	○	○	○	○	○	○	●	●		○
200	600	1800×1420×95	**NFC 600K-1LM**		119	○	○	○	○	○	○	●	●	●	○
200 | 500	600 | 1500	1000×1000×108	**BIC 1T-4S**		107										
200 | 500	600 | 1500	1000×1000×108	**BID 1T-4DSM**		108	○	●	○		○	○	●	●	●	○
200 | 500	600 | 1500	1190×840×110	**UID 1500K-1DM**		115	○	●	○		○	○	●	●	●	○
200 | 500	600 | 1500	1200×1500×108	**BIC 1T-4**		107										
200 | 500	600 | 1500	1200×1500×108	**BID 1T-4DM**		108	○	●	○		○	○	●	●	●	○
200 | 500	1500 | 3000	1200×1500×108	**BID 3T-3D**		108		●	○		○	○	●	●	●	○
200 | 500	1500 | 3000	1500×1500×108	**BID 3T-3DL**		108		●	○		○	○	●	●	●	○
200 | 500	4000 | 8000	1500×1500×123	**BFC 8T-4D**		110		○	○	○	○	○	●	●	●	○
500	1500	1000×1000×85	**BFC 1.5T-4SM**		110	○	○	○	○	○	○	●	●	●	○
500	1500	1000×1000×85	**BXC 1.5T-4SM**		112	○	○	○	○	○	○	●	●		○
500	1500	1000×1000×108	**BID 1T-4SM**		108	○	●	○		○	○	●	●	●	○
500	1500	1190×840×110	**UID 1500K-1M**		115	○	●	○		○	○	●	●	●	○
500	1500	1195×840×110	**UIB 1.5T-4**		114										
500	1500	1200×1000×108	**BID 1T-4EM**		108	○	●	○		○	○	●	●	●	○
500	1500	1200×1500×108	**BID 1T-4M**		108	○	●	○		○	○	●	●	●	○
500	1500	1270×170×83	**UFA 1.5T0.5**		113		●		○			●	●	●	○
500	1500	1361×840×80	**UFC 1.5T-4M**		116	○	○	○	○	○	○	●	●	●	○
500	1500	1361×840×80	**UXC 1.5T-4M**		117	○	○	○	○	○	○	●	●		○
500	1500	1500×1250×85	**BFC 1.5T-4M**		110	○	○	○	○	○	○	●	●	●	○
500	1500	1500×1250×85	**BXC 1.5T-4M**		112	○	○	○	○	○	○	●	●		○
500	1500	1500×1500×108	**BID 1T-4LM**		108	○	●	○		○	○	●	●	●	○
500	1500	1600×1220×95	**NFC 1.5T-4M**		119	○	○	○	○	○	○	●	●	●	○
500	1500	1600×1220×95	**NXC 1.5T-4M**		120	○	○	○	○	○	○	●	●		○
500	1500	1800×1420×95	**NFC 1.5T-4LM**		119	○	○	○	○	○	○	●	●	●	○
500 | 1000	1500 | 3000	1190×840×110	**UID 3000K-0DM**		115	○	●	○		○	○	●	●	●	○
500 | 1000	1500 | 3000	1200×1500×108	**BIC 3T-3**		107										
500 | 1000	1500 | 3000	1200×1500×108	**BID 3T-3DM**		108	○	●	○		○	○	●	●	●	○
500 | 1000	1500 | 3000	1500×1500×108	**BIC 3T-3L**		107										
500 | 1000	1500 | 3000	1500×1500×108	**BID 3T-3DLM**		108	○	●	○		○	○	●	●	●	○
1000	3000	1195×840×110	**UIB 3T-3**		114										
1000	3000	1195×840×110	**UID 3000K-0M**		115	○	●	○		○	○	●	●	●	○
1000	3000	1200×1500×108	**BID 3T-3M**		108	○	●	○		○	○	●	●	●	○
1000	3000	1270×170×83	**UFA 3T1**		113		●		○			●	●	●	○
1000	3000	1500×1250×85	**BFC 3T-3M**		110	○	○	○	○	○	○	●	●	●	○
1000	3000	1500×1250×85	**BXC 3T-3M**		112	○	○	○	○	○	○	●	●		○
1000	3000	1500×1500×85	**BFC 3T-3LM**		110	○	○	○	○	○	○	●	●	●	○
1000	3000	1500×1500×108	**BID 3T-3LM**		108	○	●	○		○	○	●	●	●	○
1000	3000	2091×120×83	**UFA 3T-3L**		113		●		○			●	●	●	○
2000	6000	1270×160×115	**UFA 6T-3**		113		●		○			●	●	●	○
2000	6000	1500×1500×123	**BFC 6T-3M**		110	○	○	○	○	○	○	●	●	●	○
2000	6000	2091×160×115	**UFA 6T-3L**		113		●		○			●	●	●	○

☐ News 2026

● Standard ○ Option





Discover more details and matching accessories online!

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

Features

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

Technical data

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

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

STANDARD

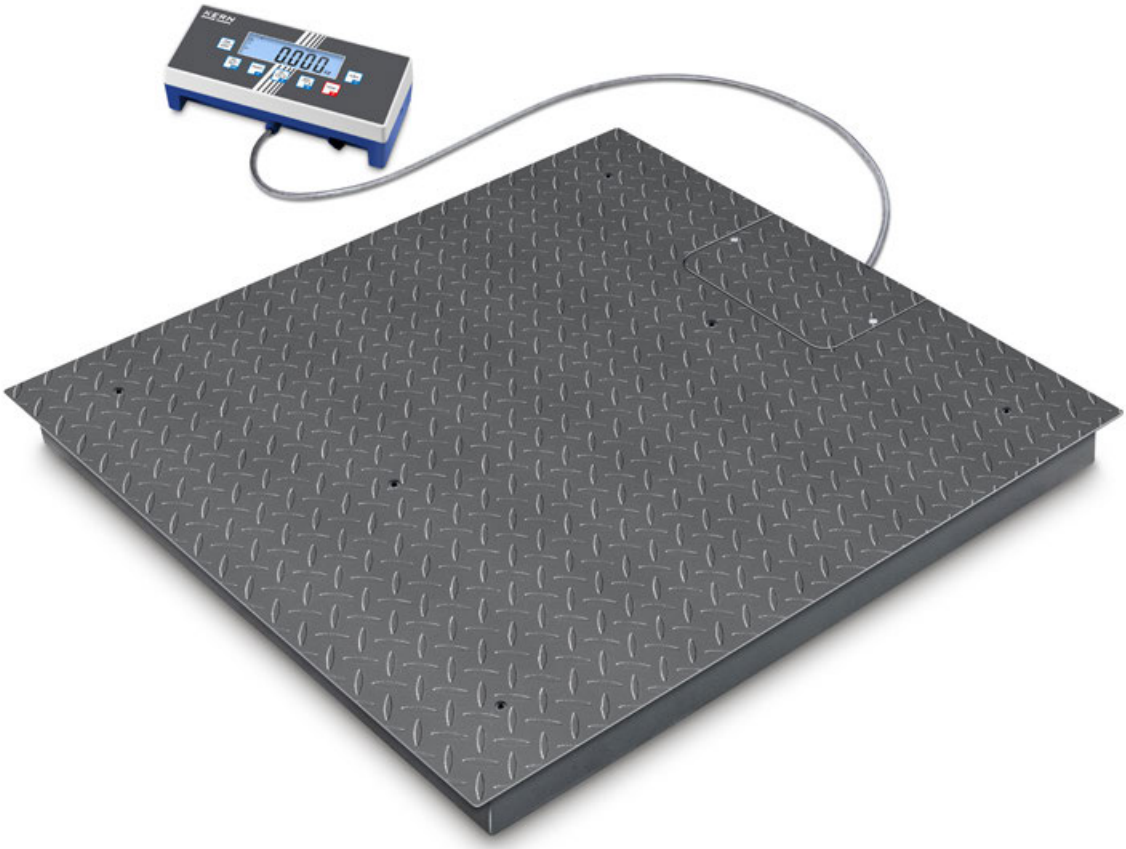


OPTION



Model KERN	Weighing capacity [Max] kg	Readability [d] kg	Weighing plate	Net weight approx. kg	Price on request Options Calibr. Certificate DAkkS accr. KERN
BIC 600K-1S	300 | 600	0,1 | 0,2	A	70	963-130
BIC 600K-1	300 | 600	0,1 | 0,2	B	150	963-130
BIC 1T-4S	600 | 1500	0,2 | 0,5	A	70	963-130
BIC 1T-4	600 | 1500	0,2 | 0,5	B	150	963-130
BIC 3T-3	1500 | 3000	0,5 | 1	B	150	963-132
BIC 3T-3L	1500 | 3000	0,5 | 1	C	155	963-132

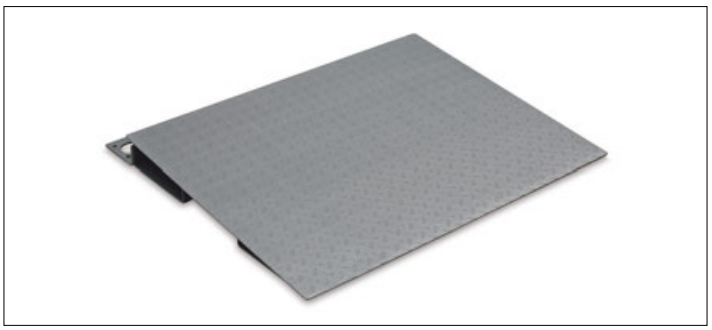
Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range



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



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



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

Features

- KERN BID 1T-4EM: Compact special size, especially for weighing europallets
- Display device: Plastic, protected against dust and water splashes IP65. for details see KERN KIB-TM
- Weighing bridge out of anti-slip corrugated steel, 4 load cells, alloy steel, silicone-coated, IP67
- Easy levelling of the weighing bridge as well as access to the junction box from above
- Totalising of weights and piece counts
- Thanks to interfaces such as RS-232 or USB, WiFi, Bluetooth, Ethernet (optional), the scale can easily be connected to existing networks. Data exchange between the scale, PC or printer
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- Multi-range balances, ideal, high maximum loads need to be weighed, but in the lower load range you still need high resolution. This means that two scales can be replaced with one - which saves space and money!

Technical data

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

Discover more details and matching accessories online!

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

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

STANDARD: RS 232 | KCP | IND IP 65 | LC IP 67 | 2 DAYS

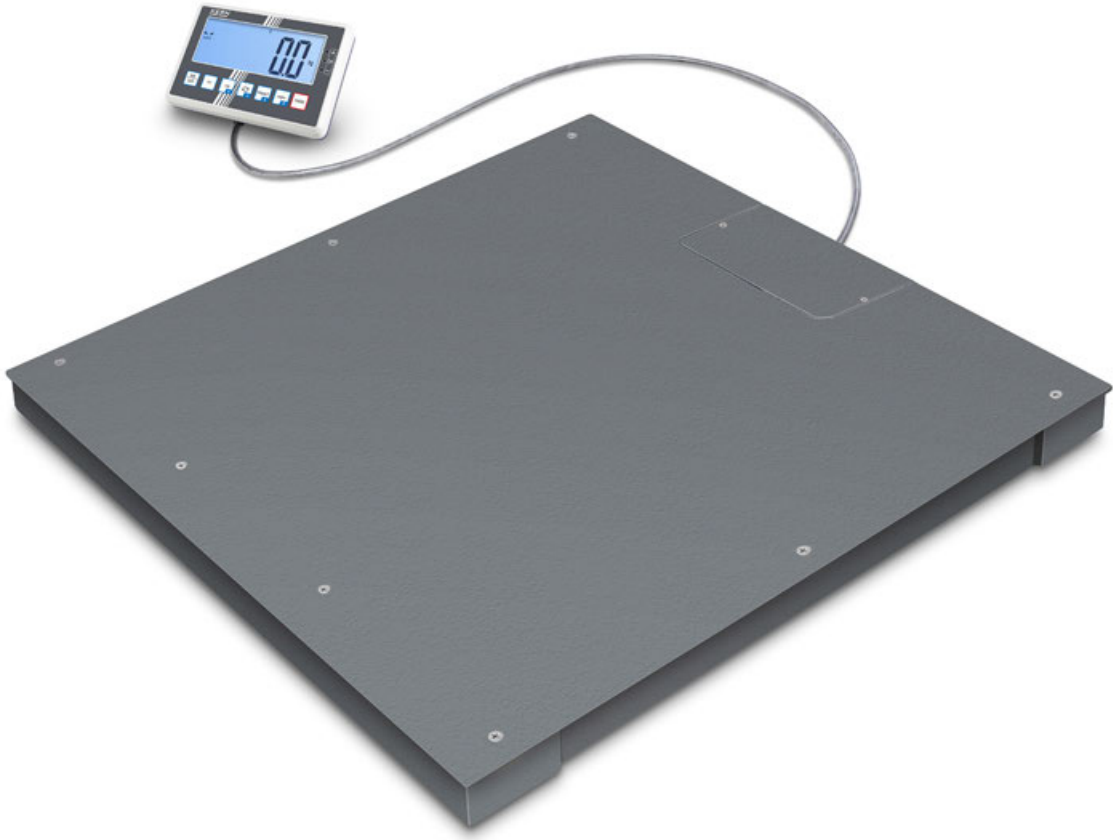
OPTION: DAkkS

FACTORY: 1 | 1 | 1 | M BID-M

Model	Weighing capacity [Max]	Readability = Verification value [d] = [e]	Minimal load [Min]	Weighing plate	Net weight approx.	Price on request	Options	
							Verification	Calibr. Certificate
KERN	kg	kg	kg		kg		M(II) KERN	DAkkS accr. KERN
High-resolution versions with fine display								
BID 600K-1DS	300 | 600	0,05 | 0,1	-	A	75		- -	963-130
BID 600K-1D	300 | 600	0,05 | 0,1	-	C	150		- -	963-130
BID 1T-4DS	600 | 1500	0,1 | 0,2	-	A	75		- -	963-130
BID 1T-4D	600 | 1500	0,1 | 0,2	-	C	150		- -	963-130
BID 3T-3D	1500 | 3000	0,2 | 0,5	-	C	150		- -	963-132
BID 3T-3DL	1500 | 3000	0,2 | 0,5	-	D	155		- -	963-132
Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range								
BID 600K-1DSM	300 | 600	0,1 | 0,2	2 | 4	A	75		965-230	963-130
BID 600K-1DM	300 | 600	0,1 | 0,2	2 | 4	C	150		965-230	963-130
BID 1T-4DSM	600 | 1500	0,2 | 0,5	4 | 10	A	75		965-230	963-130
BID 1T-4DM	600 | 1500	0,2 | 0,5	4 | 10	C	150		965-230	963-130
BID 3T-3DM	1500 | 3000	0,5 | 1	10 | 20	C	150		965-232	963-132
BID 3T-3DLM	1500 | 3000	0,5 | 1	10 | 20	D	155		965-232	963-132
BID 600K-1SM	600	0,2	4	A	75		965-230	963-130
BID 600K-1M	600	0,2	4	C	150		965-230	963-130
BID 1T-4SM	1500	0,5	10	A	70		965-230	963-130
BID 1T-4EM	1500	0,5	10	B	85		965-230	963-130
BID 1T-4M	1500	0,5	10	C	150		965-230	963-130
BID 1T-4LM	1500	0,5	10	D	155		965-230	963-130
BID 3T-3M	3000	1	20	C	150		965-232	963-132
BID 3T-3LM	3000	1	20	D	155		965-232	963-132

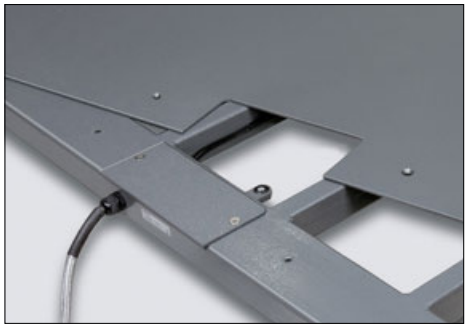
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

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

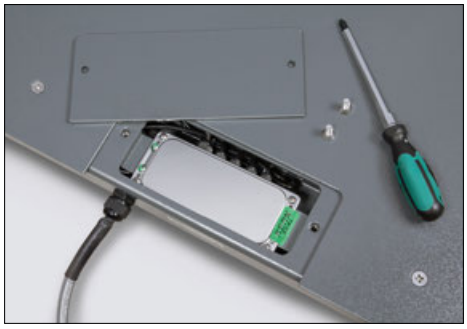


Floor scale with screwed-on weighing plate (IP67), with optional verification

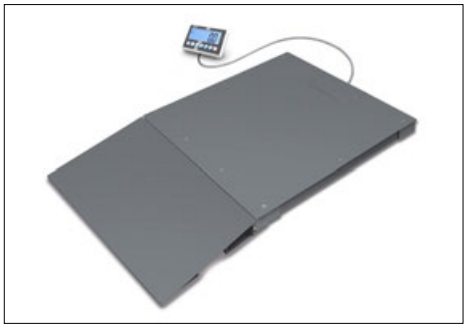
11



1 Weighing plate can be unscrewed - The weighing plate can be conveniently unscrewed for maintenance or cleaning purposes (Exception: BFC 6T-3M, BFC 8T-4D)



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



Option: Ascending ramp, lacquered steel, see *internet*

Features

- 1 Weighing plate: smooth surface, screwed on from the top, so it easy to remove, hygienic and easy to clean (Exception: KERN BFC 6T-3M, KERN BFC 8T-4D)
- KERN BFC 6T-3M, KERN BFC 8T-4D: Weighing plate welded, steel chequer plate
- 4 silicone-coated steel load cells, IP67 dust and spray protection
- Display device: for details see KERN KFC-TM
- IoT line: networkable balances with user-friendly concept of operation, for details see KERN KFC-TM
- With Real Time Clock as standard: Enables you to log the weighing results with accurate time information. Even if the power supply is interrupted, the balance can continue to work with the correct time
- Benchtop stand incl. wall mount for display device as standard
- Protective working cover included with delivery

Technical data

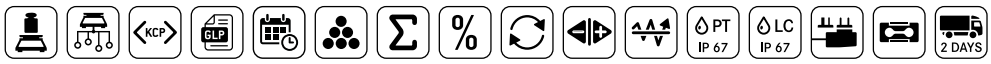
- Large backlit LCD display, digit height 48 mm
- Weighing platform dimensions W×D×H, steel, powder-coated
  - A 1000×1000×85 mm
  - B 1500×1250×85 mm
  - C 1500×1500×85 mm
  - D 1500×1500×123 mm
- Dimensions of display device W×D×H 220×150×66,5 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

Discover more details and matching accessories online!

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

11

STANDARD



OPTION



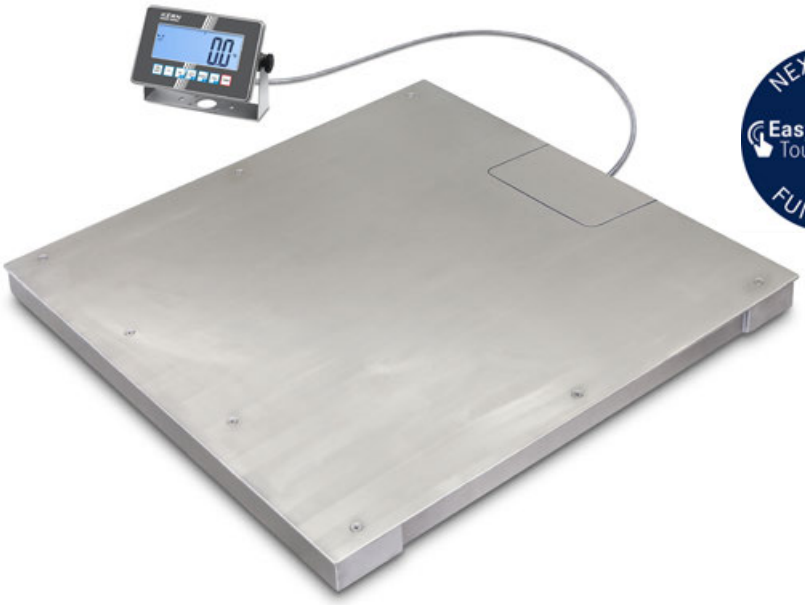
FACTORY

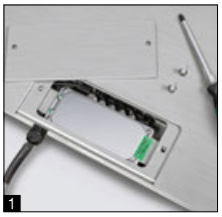


BFC-M

Model KERN		Weighing capacity [Max] kg	Readability = Verification value [d] = [e] kg	Minimal load [Min] kg	Weighing plate	Net weight approx. kg	Price on request	Options: Verification MID KERN	Options: Calibr. Certificate DAkkS accr. KERN
Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range									
BFC 1T-5DS	NEW	500 | 1000	0,02 | 0,05	-	A	95		-	963-130
BFC 1T-5D	NEW	500 | 1000	0,02 | 0,05	-	B	150		-	963-130
BFC 2T-5DS	NEW	1000 | 2000	0,05 | 0,1	-	A	100		-	963-131
BFC 2T-5D	NEW	1000 | 2000	0,05 | 0,1	-	B	150		-	963-131
BFC 4T-4D	NEW	2000 | 4000	0,1 | 0,2	-	B	150		-	963-132
BFC 4T-4DL	NEW	2000 | 4000	0,1 | 0,2	-	C	175		-	963-132
BFC 8T-4D	NEW	4000 | 8000	0,2 | 0,5	-	D	225		-	963-133
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.									
BFC 600K-1SM		600	0,2	4	A	95		965-230	963-130
BFC 600K-1M		600	0,2	4	B	150		965-230	963-130
BFC 1.5T-4SM		1500	0,5	10	A	100		965-230	963-130
BFC 1.5T-4M		1500	0,5	10	B	150		965-230	963-130
BFC 3T-3M		3000	1	20	B	150		965-232	963-132
BFC 3T-3LM		3000	1	20	C	175		965-232	963-132
BFC 6T-3M		6000	2	40	D	225		965-232	963-132
Note: For verified scales the weighing bridge should be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame									

NEW New model





Discover more details and matching accessories online!

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

Features

- Tough industry standard suitable for use in harsh industrial applications
- 1 Weighing plate screwed on from the top with stainless steel screws, so it's easy to remove, hygienic and easy to clean
- Weighing bridge: stainless steel, extremely resistant to bending due to material thickness, 4 hermetically welded stainless steel load cells, IP68 dust and spray protection
- Easy levelling of the weighing bridge as well as access to the junction box from above
- Display device: stainless steel, protection against dust and water splashes IP68, for details see KERN KXC-TM
- IoT line: networkable balances with user-friendly concept of operation
- The exchange of data and control commands is optional using up to four interfaces to suit individual requirements: two wired connections and two wireless connections, for details see KERN KXC-TM
- Available as an option with alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further
- Wall mount for display device, standard

Technical data

- Large backlit LCD display, digit height 48 mm
- Weighing platform dimensions W×D×H, stainless steel
  - A 1000×1000×85 mm
  - B 1500×1250×85 mm
- Dimensions of display device W×D×H 232×150×77,3 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

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

STANDARD

OPTION

FACTORY

Model	Weighing capacity [Max]	Readability = Verification value [d] = [e]	Minimal load [Min]	Net weight approx.	Weighing plate	Price on request	Options	
							Verification	Calibr. Certificate
KERN	kg	kg	kg	kg			KERN	DAkkS accr. KERN
BXC 600K-1SM	600	0,2	4	100	A		965-230	963-130
BXC 1.5T-4SM	1500	0,5	10	100	A		965-230	963-130
BXC 1.5T-4M	1500	0,5	10	150	B		965-230	963-130
BXC 3T-3M	3000	1	20	150	B		965-232	963-132

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

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





Discover more details and matching accessories online!

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

Features

- Flexible solution for weighing large, bulky or long items, thanks to freely positionable weighing beams and a 5 m (!) long connecting cable between the beams
- Thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- Weighing beams: steel, painted, 4 silicone-coated aluminium load cells, protection against dust and water splashes IP67
- 1 Sturdy handles for transporting the weighing beams
- 1 KERN UFA-L: Each weighing beam has a roller and handle for easy transport of the scale, see larger picture
- Display device: for details see KERN KFB-TM
- Benchtop stand incl. wall mount for display device as standard
- Totalising of weights and piece counts
- Protective working cover included with delivery
- KERN UFA-S: Model with short weighing beams, ideal for weighing compact items or animals in transport boxes
- Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation

Technical data

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

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

STANDARD



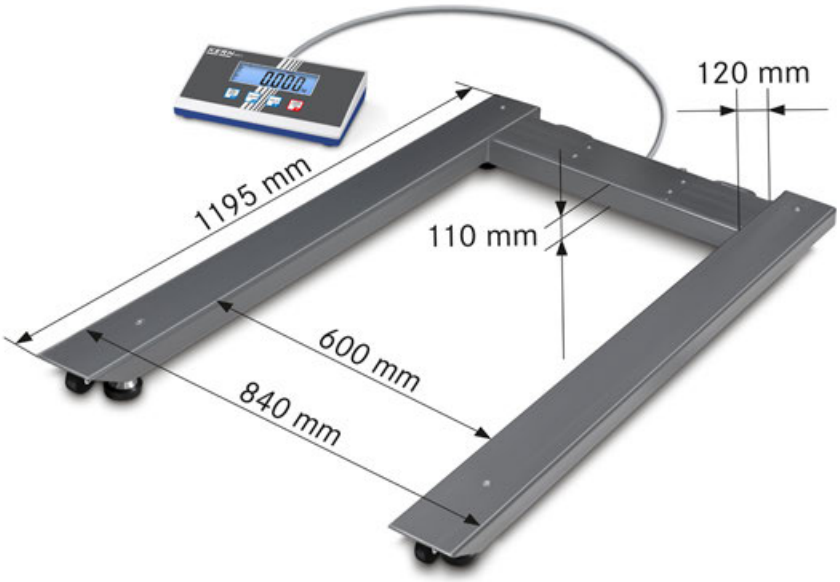
OPTION



FACTORY



Model	Weighing capacity	Readability	Dimensions Weighing beam	Net weight approx.	Price on request	Options
	[Max]	[d]	W×D×H			Calibr. Certificate
KERN	kg	kg	mm	kg		DAkkS accr. KERN
UFA 600K-1S	600	0,2	870×170×83	36		963-130
UFA 1.5T0.5	1500	0,5	1270×170×83	40		963-130
UFA 3T1	3000	1	1270×170×83	38		963-132
UFA 3T-3L	3000	1	2091×120×83	60		963-132
UFA 6T-3	6000	2	1270×160×115	90		963-132
UFA 6T-3L	6000	2	2091×160×115	130		963-132




1


1


2

Discover more details and matching accessories online!

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

Features

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

Technical data

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

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

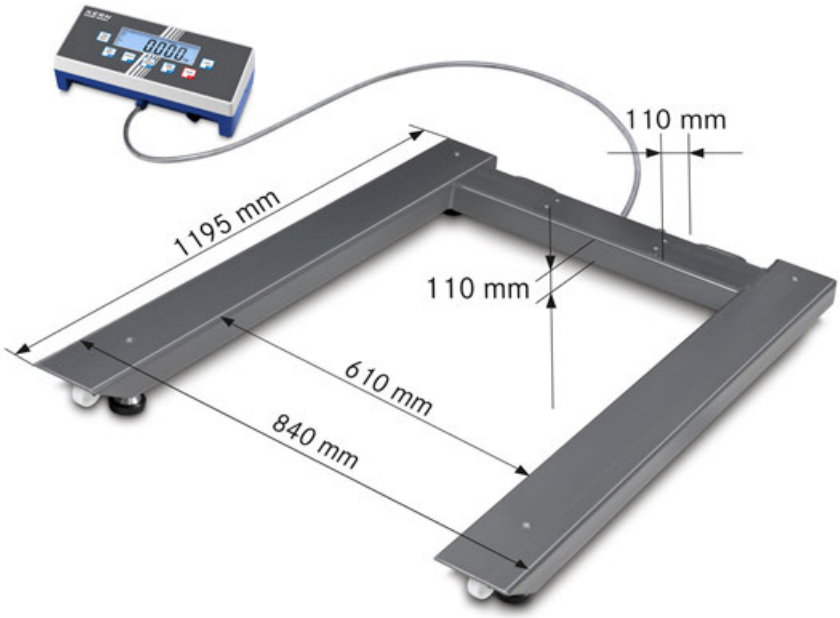
STANDARD



OPTION



Model	Weighing capacity	Readability	Price on request	Options
				Calibr. Certificate
KERN	[Max] kg	[d] kg		DAkkS accr. KERN
UIB 600K-1	600	0,2		963-130
UIB 1.5T-4	1500	0,5		963-130
UIB 3T-3	3000	1		963-132



Discover more details and matching accessories online!

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

Features

- Ideal, when high maximum loads need to be weighed, but in the lower load range you still need high resolution. This means that two balances can be replaced with one
- High mobility thanks to rechargeable battery operation (optional)
- Display device: Protection against dust and water splashes IP65
- Load support: steel, powder coated, 4 load cells, alloy steel, silicone-coated, protection against dust and water splashes IP67
- The scale can be easily transported using rollers and a handle and does not require much storage space
- Totalising of weights and piece counts
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- Thanks to interfaces such as RS-232 or USB, WiFi, Bluetooth, Ethernet (optional), the scale can easily be connected to existing networks. Data exchange between the scale, PC or printer
- Protective working cover included with delivery

Technical data

- Large LCD display, digit height 25 mm
- Dimensions of display device W×D×H 268×115×80 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

11

1 Only one optional interface can be installed and used

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

STANDARD



OPTION



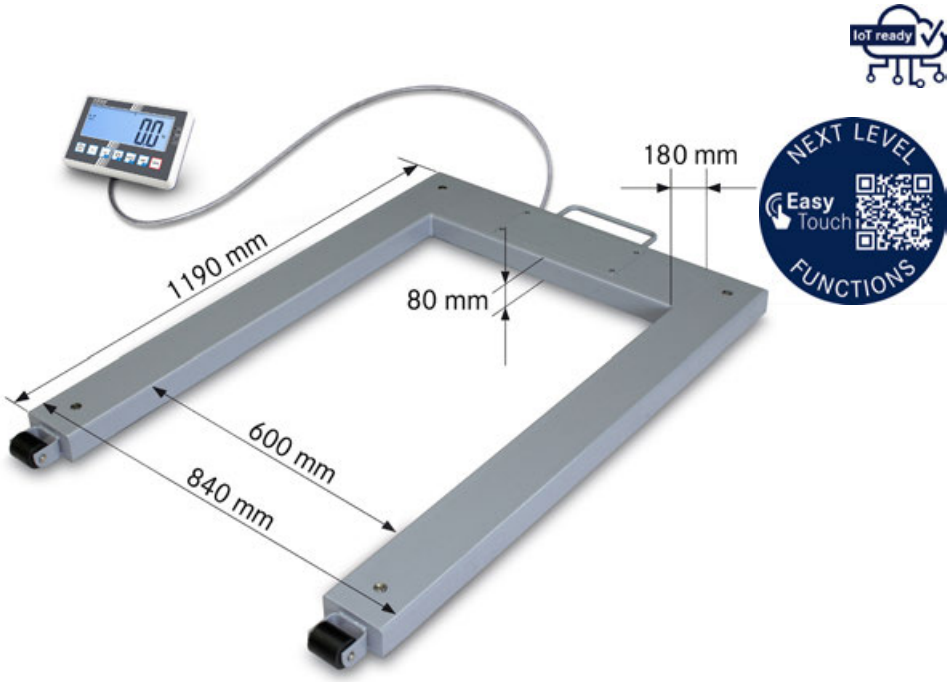
FACTORY



1 1 1

Model	Weighing capacity	Readability = Verification value	Minimal load	Net weight approx.	Price on request	Options	
						Verification	Calibr. Certificate
	[Max]	[d] = [e]	[Min]			M III	DAkkS accr.
KERN	kg	kg	kg	kg		KERN	KERN
UID 600K-1M	600	0,2	4	44		965-230	963-130
UID 1500K-1M	1500	0,5	10	44		965-230	963-130
UID 3000K-0M	3000	1	20	44		965-232	963-132
Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range							
UID 600K-1DM	300 | 600	0,1 | 0,2	2 | 4	44		965-230	963-130
UID 1500K-1DM	600 | 1500	0,2 | 0,5	4 | 10	44		965-230	963-130
UID 3000K-0DM	1500 | 3000	0,5 | 1	10 | 20	44		965-232	963-132

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



Discover more details and matching accessories online!

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

Features

- Thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- Display device: for details see KERN KFC-TM
- IoT line: networkable balances with user-friendly concept of operation, for details see KERN KFC-TM
- With Real Time Clock as standard: Enables you to log the weighing results with accurate time information. Even if the power supply is interrupted, the balance can continue to work with the correct time
- Load support: steel, powder coated, 4 load cells, alloy steel, silicone-coated, protection against dust and water splashes IP67, Weighing bridge can also be delivered as component without the display device, for details see KERN KFU-V20
- Two wheels for easy transportation of the scale
- Weighing with tolerance range (checkweighing): A visual and audible signal assists the rapid checking of items on palettes
- Totalising of weights and piece counts
- Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 48 mm
- Dimensions of display device W×D×H 220×150×66,5 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

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

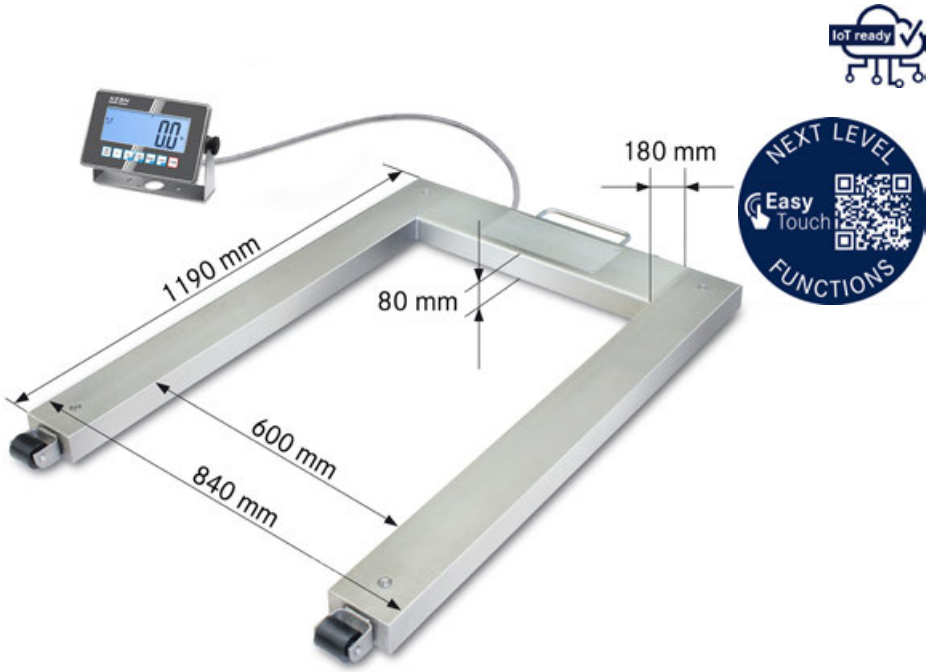
STANDARD

OPTION

FACTORY

Model	Weighing capacity	Readability = Verification value	Minimal load	Net weight approx.	Price on request	Options	
						Verification	Calibr. Certificate
	[Max]	[d] = [e]	[Min]			MID	DAkkS accr.
KERN	kg	kg	kg	kg		KERN	KERN
UFC 600K-1M	600	0,2	4	55		965-230	963-130
UFC 1.5T-4M	1500	0,5	10	55		965-230	963-130

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



Discover more details and matching accessories online!

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

Features

- Thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations
- Load support: stainless steel, for details see KERN KFU-V30
- 4 silicone-coated steel load cells, IP67 dust and spray protection
- Ideal for the increased hygienic requirements in the food industries
- Your support in a HACCP-compliant quality system
- Display device: stainless steel, protection against dust and water splashes IP68, for details see KERN KXC-TM
- IoT line: networkable balances with user-friendly concept of operation
- The exchange of data and control commands is optional using up to four interfaces to suit individual requirements: two wired connections and two wireless connections, for details see KERN KXC-TM
- Available as an option with alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further
- Wall mount for display device, standard
- The scale can be easily transported using rollers and a handle and does not require much storage space
- Hold function: When the weighing conditions are unstable, a stable weight is calculated determining an average value
- Weighing with tolerance range (checkweighing): a visual and audible signal helps with portioning, dispensing or grading
- Summation of weight values

Technical data

- Large backlit LCD display, digit height 48 mm
- Dimensions of display device W×D×H 232×150×77,3 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

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

STANDARD



OPTION



FACTORY



Model	Weighing capacity	Readability = Verification value	Minimal load	Net weight approx.	Price on request	Options	
						Verification	Calibr. Certificate
	[Max]	[d] = [e]	[Min]			MID	DAkkS accr.
KERN	kg	kg	kg	kg		KERN	KERN
UXC 600K-1M	600	0,2	4	55		965-230	963-130
UXC 1.5T-4M	1500	0,5	10	55		965-230	963-130

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











Discover more details and matching accessories online!

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

Features

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

Technical data

- Large LCD display, digit height 25 mm
- Platform height in the drive-through area: 40 mm
- Dimensions weighing surface, steel, powder-coated
  W×D 800×800 mm (Without ramps)
- Overall dimensions W×D×H 1100×1000×80 mm
- Dimensions of display device
  W×D×H 235×114×51 mm
- Cable length of display device approx. 5 m
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 60 h
- Permissible ambient temperature -10 °C/40 °C

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

STANDARD



OPTION



Model	Weighing capacity	Readability	Net weight approx.	Price on request	Options
	[Max]	[d]			Calibr. Certificate
KERN	kg	kg	kg		DAkkS accr. KERN
NIB 300K-1	300	0,1	40		963-129
NIB 600K-2	600	0,2	40		963-130



Discover more details and matching accessories online!

Networkable drive-through scale (IP67), verification optional

Features

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

Technical data

- Large backlit LCD display, digit height 48 mm
- Dimensions weighing surface, steel, powder-coated
  - A W×D 1000×1000 mm (Without ramps)
  - B W×D 1200×1200 mm (Without ramps)
- Overall dimensions W×D×H
  - A 1600×1220×95 mm
  - B 1800×1420×95 mm
- Platform height in the drive-through area: 80 mm
- Dimensions of display device W×D×H 220×150×66,5 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

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

STANDARD

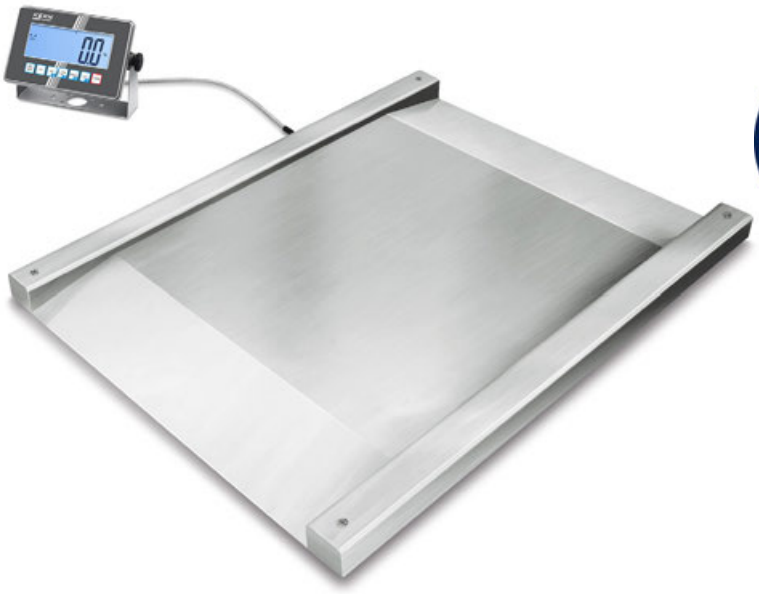
OPTION

FACTORY

Model KERN	Weighing capacity [Max] kg	Readability = Verification value [d] = [e] kg	Minimal load [Min] kg	Net weight approx. kg	Weighing plate	Price on request	Options Verification KERN	Options Calibr. Certificate DAkkS accr. KERN
NFC 600K-1M	600	0,2	4	130	A		965-230	963-130
NFC 600K-1LM	600	0,2	4	165	B		965-230	963-130
NFC 1.5T-4M	1500	0,5	10	130	A		965-230	963-130
NFC 1.5T-4LM	1500	0,5	10	165	B		965-230	963-130

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

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



Discover more details and matching accessories online!

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

Features

- Robust stainless steel drive-through scale for rapid weighing of e.g. laundry carts, container trolleys, roller containers, etc.
- Ideal for the ever-increasing hygienic requirements in the food, pharmaceutical and chemical industries
- Your support in a HACCP-compliant quality system
- Weighing bridge: stainless steel, extremely resistant to bending due to material thickness, 4 welded stainless steel load cells, IP68 dust and spray protection
- Display device: stainless steel, protection against dust and water splashes IP68, for details see KERN KXC-TM
- IoT line: networkable balances with user-friendly concept of operation
- The exchange of data and control commands is optional using up to four interfaces to suit individual requirements: two wired connections and two wireless connections, for details see KERN KXC-TM
- Available as an option with alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further
- Wall mount for display device, standard

Technical data

- Large backlit LCD display, digit height 48 mm
- Dimensions weighing surface, stainless steel, W×D 1000×1000 mm (Without ramps)
- Platform height in the drive-through area: 80 mm
- Overall dimensions W×D×H 1600×1220×95 mm
- Dimensions of display device W×D×H 232×150×77,3 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

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

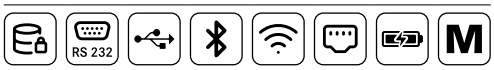
STANDARD



OPTION



FACTORY



Model	Weighing capacity	Readability = Verification value	Minimal load	Net weight approx.	Price on request	Options	
						Verification	Calibr. Certificate
	[Max]	[d] = [e]	[Min]			MID	DAkkS accr.
KERN	kg	kg	kg	kg		KERN	KERN
NXC 600K-1M	600	0,2	4	130		965-230	963-130
NXC 1.5T-4M	1500	0,5	10	130		965-230	963-130

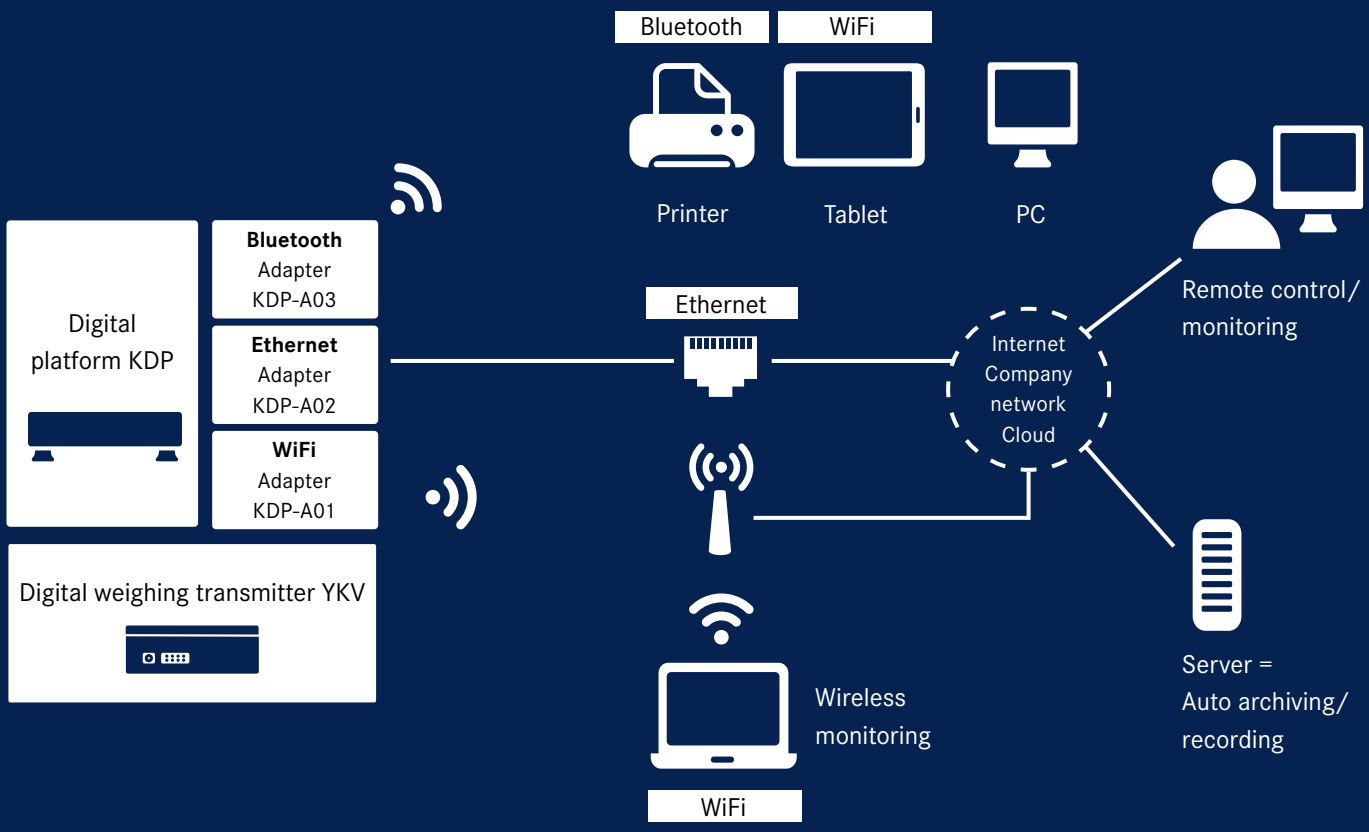
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

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



12

SYSTEM SOLUTIONS INDUSTRY 4.0, EASYTOUCH



We will help to combine industrial production with the latest information and communication technology, with the aim of improving quality, reducing costs and using time and resources more efficiently so that you are able to react to future requirements in a more flexible manner. You will benefit from our uniform data protocol combined with our BalanceConnection 4.0 data software, *see Software.*

The KERN team in our centre of expertise – Industry 4.0



Daniel Egeler



Ralf Schmieg

We are happy to inform and advise you
Tel. +49 7433 9933-324, etsales@kern-sohn.com







Discover more details and matching accessories online!

Modern digital weighing transmitter for the rapid recording of weighing data and forwarding it to the most varied output channels such as tablets, networks, SPS controllers, etc. – ideal for operating balances in systems or conveyors

Features

- Simply connect a weighing platform or measuring cell, integrate the digital weighing transmitter into the network and start weighing
- For rapid transfer of weighing data to connected networks, computers, etc.
- USB and RS-232 data interface standard, Power supply via USB interface
- Transfer formats are freely configurable
- Functions: Weighing, taring
- Measuring frequency 10 Hz
- Easy configuration using the software supplied
- Robust plastic die-cast housing
- 1 Suitable for wall mounting and DIN track mount
- Compatible with all KERN weighing platforms
- included with the delivery:
  - Digital weighing transmitter KERN YKV
  - USB cable incl. mains plug
  - DIN rail mounting bracket
  - Configuration software for adjusting and managing, enables the display and transfer of values, for example to a PC as well as conversion for different user programs such as SAP, Oracle etc.

Technical data

- Overall dimensions W×D×H 100×140×36 mm
- Net weight approx. 0,20 kg
- Permissible ambient temperature -10 °C/40 °C

12

STANDARD

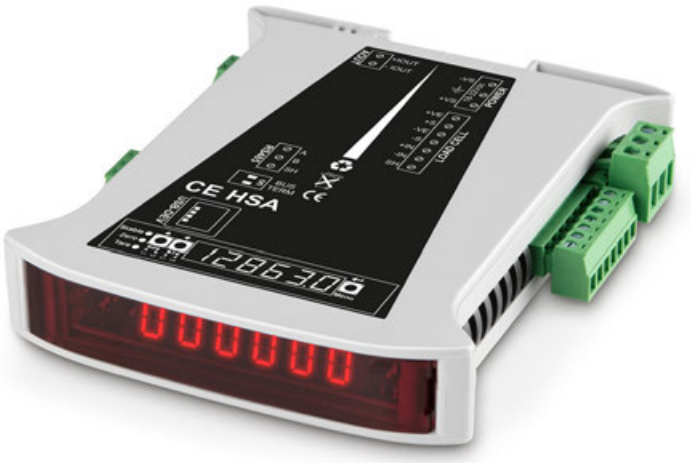


YKV-02

FACTORY



Model	Standard interfaces	Price on request
KERN		
YKV-01	RS-232, USB	
YKV-02	RS-232, USB, Ethernet	











Discover more details and matching accessories online!

Compact display device (rail-mounted module) for installation in switch cabinets

Features

- Compact display unit for recording weighing data using strain gauge load cells
- It is particularly space-saving to install in switch cabinets
- Thanks to the many interface variants, the modules can be ideally integrated into existing infrastructures and systems
- The modules can be used either individually or as a Buslink system with a total of up to 332 DIN rail modules
- Configuration of the module conveniently via a connected PC with the suitable software (Download see Internet)
- Bright LED display for optical control and settings
- Time-saving G-Cal™ (Geographic Calibration) technology for fast and accurate calibration without weights conveniently over a network or the Internet worldwide
- Convenient communication via remote devices
- Backup and restore function via USB port
- Can handle various industrial protocols such as Ethernet IP, Modbus TCP, Modbus RTU, FINS, PROFIBUS DP and PROFINET (according to model)
- Extremely high measurement frequency possible, up to 1600 data records/second
- Internal resolution 24 Bit

Technical data

- 7 segment LED display, digit height 7,62 mm
- Dimensions W×D×H 120×101×23 mm
- Power supply 18-32 Vdc; 4 W max.
- Power supply load cell 5 Vdc
- Sensitivity 0,1 µV/d
- Adjustable nominal sensitivity 1; 1.5; 2; 2.5; 3 mV/V
- Input voltage unipolar @3mV/V: -1 mV to + 16 mV
- Input voltage bipolar @3mV/V: -16 mV to +16 mV
- Max. load cell impedance 1200 Ω
- Min. load cell impedance 43,75 Ω
- Max. no. of load cells 350 Ω: 8
- Max. no. of load cells 1000 Ω: 22
- Max. resolution d 10.000
- Display steps 1, 2, 5, 10, 20, 50, 100, 200
- Permissible ambient temperature -10 °C/40 °C

STANDARD



OPTION



Note: Models optionally also available verified, please enquire

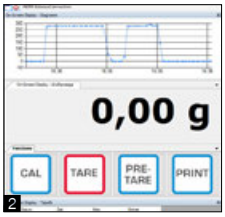
Model	Communication Interfaces	Digital I/O	Price on request
KERN			
CE HSP*	USB, PROFIBUS	3 input / 4 output	
CE HSR*	USB, RS-232, RS-422	3 input / 4 output	
CE HSN	USB, PROFINET	3 input / 4 output	

! * ONLY WHILE STOCKS LAST









Discover more details and matching accessories online!

Universal weighing platforms for flexible connection in process chains

Features

- These weighing platforms can be easily integrated into your process chain. All recorded values can be easily transferred and processed further in your system as digital data and data that has already been compared using the many interfaces available. This saves cost, time and resources and ensures even more effective working
- Connecting the platform with a tablet or PC offers the advantage of being able to use the apps and programs which are on that device. This offers you the maximum level of flexibility when displaying, processing and saving the recorded weighing data
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- 1 A practical status LED informs about the active power supply
- Draught shield standard for models with weighing plate size A, weighing space W×D×H 146×146×80 mm
- 2 Software BalanceConnection for adjusting and managing the KERN KDP, for large-format display of the values collected on the PC as well as transfer of this data to other Apps and programs included with the delivery

Technical data

- Dimensions weighing surface
  A ⌀ 105 mm, plastic, with conductive lacquer
  B W×D 160×160 mm, stainless steel, see larger picture
- Overall dimensions W×D×H 165×166×75 mm (without draught shield)
- Cable length approx. 1,2 m
- Net weight approx. 1,2 kg
- Permissible ambient temperature 5 °C/35 °C

*WiFi and Ethernet data interface cannot be combined

STANDARD | OPTION | FACTORY

Model	Weighing capacity	Readability	Reproducibility	Linearity	Weighing plate	Price on request	Options
	[Max]	[d]					Calibr. Certificate
KERN	g	g	g	g			DAkkS accr. KERN
KDP 300-3	350	0,001	0,002	± 0,005	A		963-127
KDP 3000-2	3500	0,01	0,02	± 0,05	B		963-127
KDP 10K-4	10000	0,1	0,1	± 0,3	B		963-128
KDP 10K-3**	10000	1	1	± 3	B		963-128

! ** ONLY WHILE STOCKS LAST

WE CAN MAKE YOUR WEIGHING DATA DIGITAL – KERN EASYTOUCH

The KERN EasyTouch software combines the performance of KERN scales with the flexibility of a Windows or Android environment.

The modular system solution for efficient weighing – perfect for your individual requirements.



KERN EasyTouch – weighing is so easy today:
A perfectly coordinated weighing system
consisting of platform, balance and tablet

See for yourself the many benefits of the KERN EasyTouch Software:

- → **Greater efficiency through short workflows for the user**
- → **Greater security of the measuring results**
- → **Avoiding measuring and process errors**
- → **Unlimited master data memory**
- → **Central data storage and data security (tamper-proof)**
- → **Interfaces to ERP, PPS, etc. systems**

All details about KERN EasyTouch can be found at
https://lp.kern-sohn.com/en/easytouch

Easy Touch

See for yourself how convenient
and easy it is
to use KERN EasyTouch

Working with KERN EasyTouch is so easy

Collect the weight and measurement data with a device from our KERN IoT-Line	KERN EasyTouch combines and processes weights with master and product data, as well as user and time information	Supply of data to connected systems or peripheral devices



→ A standard balance from our KERN IoT-Line is connected to an external laptop/tablet

→ The performance of the balance is transferred to the terminal device 1:1

→ The expansion of the user interface enables simple and intuitive operation of the balance and direct display and processing of measurement and master data

→ The data is integrated directly in the process and this means it can continue to be used and stored

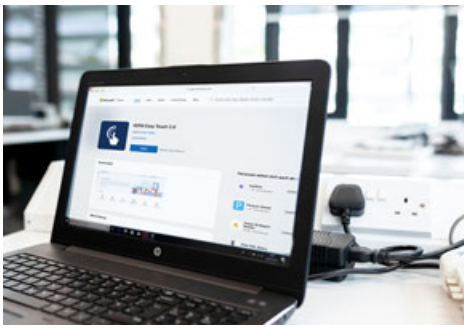
→ Errors in the process or application are avoided

→ In this way a simple balance becomes a highly-complex measuring device

→ The recorded data can be processed further in a flexible way

KERN EasyTouch – these functions are included:

- Basic program with functions including weighing and dispensing function, as well as master data and user administration
- Over 20 optional add-on functions
- Tamper-proof data storage and seamless traceability of your measurement data and changes to your master data
- On request we can also offer tailor-made solutions – get in touch with us!



Get it from Microsoft

GET IT ON Google Play

KERN EasyTouch App – download now from Microsoft Store® (for Windows®) or Google Play Store® (for Android™)

Test it without any risk and free of charge – it's that easy:

1 **Download KERN EasyTouch from the App Store**
The free trial version contains the full range of functions.

2 **Connect the devices you need**
Connect to devices using the four interfaces provided (Bluetooth, wired or USB adapter or WiFi).

3 **Basic program with optional add-on functions**
180-day test
During the testing phase you can decide whether to continue using the software. With absolutely no loss of data.

Talk to the professionals

Our specialists will gladly inform and advise you on all questions regarding KERN EasyTouch

Tel. +49 7433 9933-324
etsales@kern-sohn.com



Wolfgang Schäfer

KERN EasyTouch – You have the following options







Possible interfaces:

→ Wired through KUP-01 (RS-232) or KUP-03 (USB A)

→ Bluetooth through KUP-06 or KUM-06

→ Ethernet through KUP-04 or KUM-04

→ WiFi through KUP-05 or KUM-05

Your benefits of the KERN EasyToch software

→ You only pay for the functions that you use

→ Expansion of the range of services of your balance to meet your individual ideas and preferences

→ Easy control of your balances from wherever you currently are: laboratory, production, office control of a PC, laptop or a tablet

→ Tamper-proof storage of all weighing data on a central server, in an orderly database

KERN EasyTouch – available right now for the following KERN ranges/models

KERN Balances / Weighing platforms

Display Devices	KFC[1]	Stainless steel Platform Scales	SXC[1]	Precision Balances	572, PCJ
Baby Scales	MBA	Compact Laboratory Balances	PCB	Wheelchair platform scales	MWN[1]
Floor Scales	BFC, BXC	Pallet Scales	UFC, UXC	Chair scales	MCN[1]
Digital Platforms	KDP	Personal Balances	MPN[1]	Bench Scales	FCB[1], FKB
Digital Weighing Systems	KGP	Platform Scales	DS, IFC[1], IXC[1]	Counting Scales	CDS, CKE

[1] Verified operation: Weighing data from legally regulated uses can be stored and archived in KERN EasyTouch in conformity with standards, by using models from this product family with valid calibration and measurement value memory. This standard-compliant data storage also applies to SaveServer.

Depending on the model and connection type (USB, Bluetooth, Ethernet, WiFi), please contact KERN specifically, as there may currently still be restrictions on the possible combinations.

Tip: Other KERN ranges can be adapted to be EasyTouch compatible – keep up-to-date with the latest new on **https://lp.kern-sohn.com/en/easytouch**

Note: All KERN models which are EasyTouch compatible are marked with the relevant symbol in the catalogue!

EasyTouch function at a glance

Basic Package – Operating system

SET-01 EasyTouch Base

Basic Weighing & Laboratory Package
The basic package contains many useful functions such as weighing, totalizing, target dispensing and percentage weighing.
As well as the local master data administration and management of the weighing results.

The basic package can be expanded at any time with additional, optional add-on functions.

Selection of optional features - can be added as required

SET-07 Variable

Free variable function
Individually definable units,
e.g. cable length g/m,
weight per unit area g/m^2, etc.

SET-08 Take-Out

Take-out function
Ideal for portioning by removing from a source container

SET-11 Safety

Precision & Safety function
Scale monitoring: the MUST for the pharmaceutical sector

SET-16 Batch & Statistics

Batch measuring function with statistical analysis
Perfect function in the context of production control, for calculating averages, etc.

SET-21 Formulation

Recipe function
Recipe management, dosing aid, recipe adjustment, multiplier function, etc.

SET-22 Difference

Difference function
Monitoring of weight increase (e.g. cell growth) or weight decrease (e.g. drying) and calculation of the weight difference

SET-31 Tolerance

Tolerance weighing function
Weighing within defined limits ensures fast sorting, portioning, picking, checking

SET-32 Count

Piece-counting function
Fast counting of large quantities, avoids counting errors, saves time and money!

SET-33 Target Count

Target-counting function
For lightning-fast picking of small parts, safely supported by optical and acoustic signals

SET-17 PrePack

Production control and packaging
Perfect for use in sectors such as the food industry for weighing in accordance with pre-packaging legislation

SET-14 Individual Print

User-customised print format function
Individual design of labels, tags, and protocols with just a few clicks – easily done via drag and drop

You can find more functions on our EasyTouch home page:

https://lp.kern-sohn.com/en/easytouch

Central data memory

SET-10 Save-Data Server

Weight storage and Save-Server function
Central storage of weighing and measuring data in a network

SET-28 Customization Service

Service for programming
Setting up and configuring interfaces (e.g. to merchandise management, ERP or PPS) and individual customer requirements



13

DISPLAY DEVICES, PLATFORMS, WEIGHING BRIDGES

Customized individual weighing systems, without verification
KERN offers a range of KERN display devices and KERN weighing units, such as platform scales, floor scales, pallet scales and drive-through scales, which you can customize to make your ideal scale. You choose the components, KERN handles the rest.

Assembly
KERN delivers the complete scale which is ready to use. Prices for assembly can be found in the “Assembly” price table. On request we can also create a calibration certificate in accordance with DAkkS at an additional price, *see Accredited Calibration Service.*

Customizing individual weighing systems which can be verified or are verified
In order to provide the complete package, as well as assembling your individual weighing system, KERN will also carry out the manufacturer’s initial verification/evaluation for conformity in accordance with EC directives as a commercial scales of verification class III.

In accordance with the European verification regulations, when assembling a display device with a weighing unit you must take the following notes into account:
- Only elements which can be verified with type approval or OIML test certificate can be combined into a weighing system which can be verified. Possible models are marked with “M”.
- Platforms with load cells, provided as third-party products which have an OIML test certificate can be included.
- It will not be possible to carry out verification at a later date, e.g. after assembly and delivery of the weighing system. So please order the verification at the same time as you order the weighing system.

You will find a wide variety of display devices, platforms, weighing bridges, etc. in KERN’s product range and these can be put together to create your ideal scale. You simply choose the components, KERN handles the rest.



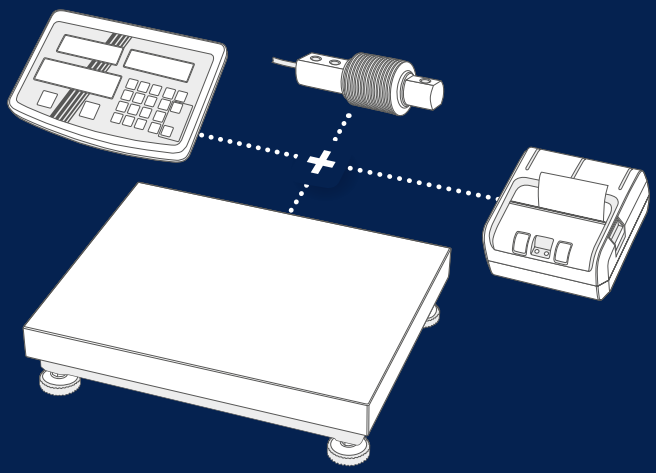
NOTHING IS IMPOSSIBLE – KERN CUSOS

Perfectly working weighing solutions with customized platform sizes, specific software solutions and coordinated peripherals – to suit your processes.

Our KERN Customized Solution Service offers maximum freedom of choice – give it a try.



Zoologischer Garten Schwerin/Sven P. Peter



13

KERN CUSOS – Perfectly tailored to you and your requirements

Powerful balances and efficient weighing systems which support you in your work, should be adapted to your individual requirements. Standard models are therefore not sufficient under some circumstances.

For this reason, at KERN it is our pleasure to work with you to develop a solution which is appropriate and tailor-made for you. From a range of platform sizes through to personalised weighing systems within large production plants, we can provide the right measuring technology.

Through close collaboration with your engineers and users, we first check the special requirements for your application. Using this data we will put together the appropriate platform scale, floor scale or a completely personalised weighing system for you, to fit your requirements perfectly.

Tip: Save money and ask our experts. Maybe your desired combination is already included in our standard range?

CUSTOMIZED SOLUTION SERVICE

For details scan QR Code:





For perfect integration into existing and newly configured processes: individual platform construction in individual formats



Ideal for customised requirements



From horses to rhinos – weighing large animals is child's play with our tailor-made solutions

CUSTOMIZED SOLUTION SERVICE

Your advantage – you have the choice

Choose from a wide range of display devices. Economical and lightweight (plastic version), robust and water-resistant (stainless steel version), with numeric key pad, battery or mains operation or the most varied interfaces.

Load cells to construct automatic weighing systems such as filling or dosing systems, such as might be used, for example, in manufacturing or filling processes in the chemical industry, construction industry, mineral industry, etc.

On many occasions, load cells are also used in the construction of checkweighers or for installation into packaging machines of any type in the food industry.

The weighing data can be forwarded to peripheral devices such as signal lamps, printers and laptops or be used to switch valves, or similar devices.

What's your individual requirement?

Just tell us the size you want and the material you want for your platform and other essential construction details – done! We'll take care of the implementation.

Following you will find a selection of our platforms, load cells and evaluation devices – the starting point for your individual system solution!

Our competent CUSOS team is at your disposal and is looking forward to your project:

Tel: +49 7433 9933-570
E-Mail: cusos@kern-sohn.com



Andreas Rudolf



Fabian Brenner

Further information and products:
www.kern-sohn.com

The individual KERN steps

	Weighing capacity	Model	Price on request
1. Proof of compatibility This is mandatory by law and includes testing by using type approvals, whether the connection values of the display device match the connection data of the weighing unit.	0 up ... kg	**KERN**	
	all Weighing capacities	**965-240**	
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**	
	up ≤ 350 kg	**965-412**	
	up ≤ 1500 kg	**965-413**	
	up ≤ 2900 kg	**965-414**	
	up ≤ 6000 kg	**965-415**	
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**	
	up ≤ 50 kg	**965-228**	
	up ≤ 350 kg	**965-229**	
	up ≤ 1500 kg	**965-230**	
	up ≤ 2900 kg	**965-231**	
	up ≤ 6000 kg	**965-232**	
4. Declaration of conformity KERN issues this after the initial verification by the manufacturer Conformity assessment has been carried out successfully and sends it with the weighing system at no additional cost, and it can be used in areas regulated by law.			

Modifications and special services

Description	Model	Price on request
	KERN	
Cable extensions for platform scales		
up to 4 m extension	**965-403**	
up to 7 m extension	**965-404**	
up to 20 m extension	**965-405**	
Individual settings		
Scale with NAWI conformity evaluation, only in combination with KERN 965-240	**965-401**	
Other adjustments in the balance or software changes	**965-407**	

13

! Delivery time for modifications & special services approx. 5-8 working days

Order example

KFP 30V20M platform and **KEN-TM** display device with cable extension (4 m) and setting an individual preload.	Model **KERN**	Price on request
KERN platform	**KFP 30V20M**	
KERN display device	**KXC-TM**	
Proof of compatibility	**965-240**	
Cable extension	**965-403**	
Setting the preload	**965-401**	
Assembly	**965-411**	
Verification at the factory KERN	**965-228**	
Complete scale (verified)		



1 KERN KFS-TM

Professional indicator with 3 displays, verification optional

Features

- 99 item memories
- Totalising
- Printout with date and time
- Integrated KERN Communication Protocol (KCP), ideal for connecting an Merchandise Management or ERP system
- Compatible with KERN EasyTouch App
- Benchtop stand for display device incl.
- Wall mount for display device, standard

Discover more details and matching accessories online!

STANDARD



OPTION FACTORY





2 KERN KFN-TM

Stainless steel display device with IP65 protection and superior display size and optional analogue output for controlling systems (PLC) etc.

Features

- Totalising
- Hold function
- Benchtop stand for display device incl.
- Wall mount for display device, standard

*not possible in combination with verification. When installing the Bluetooth data interface, the RS-232 data interface can no longer be used

**not possible in combination with signal lamp. When installing the analogue module, the RS-232 data interface can no longer be used

STANDARD



FACTORY



KERN	1 KFS-TM	2 KFN-TM
Display (segments)	6 digits	5 + 1/2 digits
EU type approval	Yes	Yes
Resolution verifiable (e)	3.000	6.000
Terminal resolution (not verifiable)	60.000	30.000
Weighing capacities	2	2
Weighing units	kg, g	kg
Digit increments	1, 2, 5, 10, n	1, 2, 5, 10, n
Piece counting with reference	n	10, 20, 50, 100, 200
Display, digit height	LCD, 16,5 mm	LCD, 52 mm
Display backlight	yes	yes
Strain gauge load cells	87 – 1200 Ω	87 – 1600 Ω
Linearisation (points)	4	3
Input voltage	12 V, 500 mA	12 V, 500 mA
Permissible ambient temperature	0 °C – 40 °C	-10 °C – 40 °C
Dimensions housing W×D×H	250×160×65 mm	265,5×164,5×96 mm
Net weight	1,00 kg	2,6 kg
Price on request		



IoT ready

NEXT LEVEL Easy Touch FUNCTIONS





Discover more details and matching accessories online!

Display device with up to three interfaces and optional verification

Features

- Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- Industry 4.0: Data and control commands can be exchanged through the KERN Universal Port KUP) using one interface, which can be connected to the housing, or through three parallel interfaces using the KUP Extension box* (see *internet*)
- The following interfaces are available as an option: RS-232, USB, Analogue module, Ethernet, WiFi, Bluetooth
- Each interface can be set up separately, e.g.:
  - Interface 1 (WiFi): Continuous sending to a PC for documentation of a process
  - Interface 2 (RS-232): Print stable weight
  - Interface 3 (analogue module): Controlling a device when the target weight is reached
- Available as an option with alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further
- Data query and remote control of the balance using a computer or CRM/ERP systems using the KERN Communication Protocol
- Simplified battery replacement through easily-accessible housing. Particularly advantageous for models with optional verification, as the verification seal remains intact
- With Real Time Clock as standard: Enables you to log the weighing results with accurate time information. Even if the power supply is interrupted, the balance can continue to work with the correct time

13

STANDARD | OPTION | FACTORY



KERN	KFC-TM
Display (segments)	6 digits
EU type approval	Yes
Resolution verifiable (e)	3.000
Terminal resolution (not verifiable)	999.999
Weighing capacities	2
Weighing units	kg, g, lb, ffa, PCS, % | Verifiable: kg, g
Digit increments	5, 10, 20, 50, n
Piece counting with reference	n
Display, digit height	LCD, 48 mm
Display backlight	yes
Strain gauge load cells	87 – 1227 Ω
Linearisation (points)	3
Input voltage	100 V - 240 V
Permissible ambient temperature	-10 °C – 40 °C
Dimensions housing W×D×H	220×145×65 mm
Net weight	0,75 kg
Price on request	





Discover more details and matching accessories online!

Stainless steel display device with IP68 dust and spray protection and up to four interfaces, with optional verification

Features

- With dust and spray protection (IP68), which makes it ideal for use in industry and outdoors
- Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- Industry 4.0: The exchange of data and control commands is optional using up to four interfaces to suit individual requirements: two wired connections (RS-232, Ethernet, USB or analogue module) and two wireless connections (WiFi, Bluetooth)
- Each interface can be set up separately, e.g.:
  - Interface 1 (WiFi): Continuous sending to a PC for documentation of a process
  - Interface 2 (RS-232): Print stable weight
  - Interface 3 (analogue module): Controlling a device when the target weight is reached
  - Interface 4 (Bluetooth): Continuous sending to a tablet to monitor a process
- Data query and remote control of the balance using a computer or CRM/ERP systems using the KERN Communication Protocol
- Available as an option with alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further, see *internet*

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

13

STANDARD

OPTION

FACTORY

KERN	KXC-TM
Display (segments)	6 digits
EU type approval	Yes
Resolution verifiable (e)	3.000
Terminal resolution (not verifiable)	999.999
Weighing capacities	2
Weighing units	kg, g, lb, ffa, PCS, % | Verifiable: kg, g
Digit increments	5, 10, 20, 50, n
Piece counting with reference	n
Display, digit height	LCD, 48 mm
Display backlight	yes
Strain gauge load cells	87 – 1227 Ω
Linearisation (points)	3
Input voltage	110 V - 240 V AC
Permissible ambient temperature	-10 °C – 40 °C
Dimensions housing W×D×H	232×150×77,3 mm
Net weight	1,6 kg
Price on request	





Discover more details and matching accessories online!

1 KERN KBP-V20 IP65 Platform

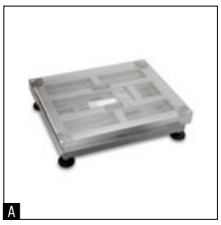
Features

- Stainless steel-weighing plate, A Painted steel base
- 1 load cell, aluminium, silicone-coated, IP65, OIML-R60-approved, class III, 3000 e
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard
- Preparation for easy assembly of the ESD earthing kit on the weighing bridge

2 KERN KFP-V20 IP65 Platform

Features

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



STANDARD: LC IP 65 · 1 DAY · 2 DAYS — FACTORY: M

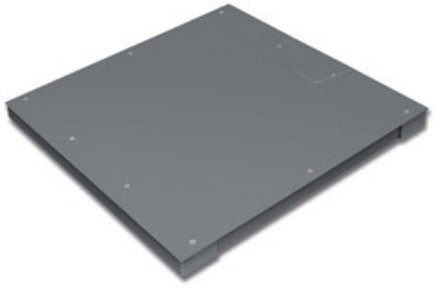
KFB 600V20M



STANDARD: LC IP 65 · 1 DAY · 2 DAYS — FACTORY: M

KFP 600V20AM

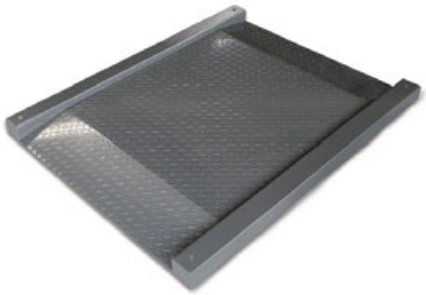
Model	Weighing capacity	Readability	Verification value	Minimal load	Cable length	Net weight	Weighing plate	Price on request
KERN	[Max] kg	[d] g	[e] g	[Min] g	approx. m	approx. kg	W×D×H mm	
1 Platform KBP-V20 IP65								
KBP 6V20LM	3 | 6	0,2	1 | 2	20 | 40	2,5	3,8	300×300×110	
KBP 15V20M	6 | 15	0,5	2 | 5	40 | 100	2,5	3,8	300×240×110	
KBP 15V20LM	6 | 15	0,5	2 | 5	40 | 100	2,5	7	400×300×110	
KBP 30V20M	15 | 30	1	5 | 10	100 | 200	2,5	7	400×300×110	
KBP 60V20M	30 | 60	2	10 | 20	200 | 400	2,5	8	400×300×110	
KBP 60V20LM	30 | 60	2	10 | 20	200 | 400	2,5	13	500×400×120	
KBP 150V20M	60 | 150	5	20 | 50	400 | 1000	2,5	13	500×400×120	
KBP 150V20LM	60 | 150	5	20 | 50	400 | 1000	2,5	19	650×500×150	
KBP 300V20M	150 | 300	10	50 | 100	1000 | 2000	2,5	19	650×500×150	
KBP 600V20M	300 | 600	20	100 | 200	2000 | 4000	2,5	42	800×600×151	
2 Platform KFP-V20 IP65								
KFP 3V20M	3	0,1	1	20	2,5	3,4	230×230×106	
KFP 6V20M	6	0,2	1 | 2	20 | 40	2,5	4,4	230×230×106	
KFP 6V20LM	6	0,2	1 | 2	20 | 40	2,5	3,8	300×240×109	
KFP 15V20M	6 | 15	0,5	2 | 5	40 | 100	2,5	3,8	300×240×109	
KFP 15V20LM	6 | 15	0,5	2 | 5	40 | 100	2,5	7	400×300×117	
KFP 30V20SM	15 | 30	1	5 | 10	100 | 200	2,5	3,8	300×240×109	
KFP 30V20M	15 | 30	1	5 | 10	20	2,5	7	400×300×117	
KFP 30V20LM	15 | 30	1	5 | 10	20	2,5	11	500×400×127	
KFP 60V20M	30 | 60	2	10 | 20	200 | 400	2,5	7	400×300×117	
KFP 60V20LM	30 | 60	2	10 | 20	200 | 400	2,5	10	500×400×127	
KFP 150V20M	60 | 150	5	20 | 50	400 | 1000	2,5	7	500×400×127	
KFP 150V20LM	60 | 150	5	20 | 50	400 | 1000	2,5	19	650×500×139	
KFP 300V20M	150 | 300	10	50 | 100	1000 | 2000	2,5	19	650×500×139	
KFP 600V20AM	600	20	200	4000	2,5	42	800×600×192	



3 KERN KFP-V20 IP67
Weighing bridge

Features

- C [Max] < 6000 kg: Weighing plate screwed on from the top, so it is easy to remove and to clean
- D [Max] = 6000 kg: Lacquered steel weighing bridge, 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, fitted as standard
- Easy access to the junction box from above
- Comfortable levelling of the weighing bridge from the top

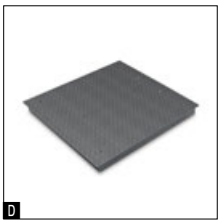


4 KERN KFD-V20 IP67
Weighing bridge

Features

- Weighing bridge made of non-slip corrugated steel plate, lacquered, two access ramps integrated, extremely resistant to bending
- Extremely flat construction to facilitate access: access height only 45 mm
- 4 load cells, alloy steel, silicone-coated, IP67, OIML R60 approval for verification, Class III, 3000 e


C


D

Discover more details and matching accessories online!

STANDARD: LC IP 67, 2 DAYS — FACTORY: M

STANDARD: LC IP 67, 2 DAYS — FACTORY: M

Model	Weighing capacity	Readability	Verification value	Minimal load	Cable length	Net weight	Weighing plate	Price on request
KERN	[Max] kg	[d] g	[e] g	[Min] g	approx. m	approx. kg	W×D×H mm	
3 Weighing bridge KFP-V20 IP67								
KFP 600V20SNM	600	200	200	4000	5	95	1000×1000×85	
KFP 600V20NM	600	200	200	4000	5	150	1500×1250×85	
KFP 1500V20SNM	1500	500	500	10000	5	100	1000×1000×85	
KFP 1500V20NM	1500	500	500	10000	5	150	1500×1250×85	
KFP 3000V20NM	3000	1000	1000	20000	5	150	1500×1250×85	
KFP 3000V20LNM	3000	1000	1000	20000	5	175	1500×1500×85	
KFP 6000V20M	6000	2000	2000	40000	5	225	1500×1500×123	
4 Weighing bridge KFD-V20 IP67								
KFD 600V20M	600	200	200	4000	5	130	1600×1220×95	
KFD 600V20LM	600	200	200	4000	5	165	1800×1420×95	
KFD 1500V20M	1500	500	500	10000	5	130	1600×1220×95	
KFD 1500V20LM	1500	500	500	10000	5	165	1800×1420×95	



5 KERN KFA-V20 IP67
Weighing beams

Features

- Weighing beams, lacquered steel
- 4 load cells, alloy steel, silicone-coated, IP67
- Levelling feet for precise levelling of the weighing beams
- Cable length between weighing beams approx. 5 m
- KFA 600V20S: Model with short weighing beams, ideal for weighing compact items or animals in transport boxes



6 KERN KFU-V20/V30 IP67
U-Weighing bridge

Features

- KERN KFU-V20: Load range: painted steel (V20), stainless steel (V30) height 90 mm (see larger picture)
- E KERN KFU-V30: Load range: stainless steel
- 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



7 KERN KFP-V30 IP67
Platform

Features

- Platform: entirely out of stainless steel, F Painted steel base
- 1 weighing cell, stainless steel, silicone-coated, IP67, OIML R60 approval for verification, class III, 3000 e
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard

Discover more details and matching accessories online!





STANDARD: LC IP 67, 2 DAYS

STANDARD: LC IP 67, 2 DAYS — FACTORY: M

STANDARD: LC IP 67, 1 DAY — FACTORY: M

13

Model	Weighing capacity	Readability	Verification value	Minimal load	Cable length	Net weight	Weighing plate	Price on request
KERN	[Max] kg	[d] g	[e] g	[Min] g	approx. m	approx. kg	W×D×H mm	
5 Weighing beams KFA-V20 IP67								
KFA 600V20S	600	200	-	-	5	32	870×170×83	
KFA 1500V20	1500	500	-	-	5	38	1270×170×83	
KFA 3000V20	3000	1000	-	-	5	36	1270×170×83	
KFA 3000V20L	3000	1000	-	-	5	55	2091×120×83	
KFA 6000V20	6000	2000	-	-	5	80	1270×160×115	
KFA 6000V20L	6000	2000	-	-	5	125	2091×160×115	
6 U-Weighing bridge KFA-V20 IP67								
KFU 600V20M	600	200	200	4000	5	55	1361×840×80	
KFU 1500V20M	1500	500	500	10000	5	55	1361×840×80	
6 U-shaped stainless steel weighing bridge KFU-V30 IP67								
KFU 600V30M	600	200	200	4000	5	55	1361×840×80	
KFU 1500V30M	1500	500	500	10000	5	55	1361×840×80	
7 Stainless steel platform KFP-V30 IP67								
KFP 15V30M	15	1	5	100	3	8	300×240×107	
KFP 30V30SM	30	2	10	200	3	5,0	300×240×107	
KFP 30V30M	30	2	10	200	3	8	400×300×111	
KFP 60V30M	60	5	20	400	3	8	400×300×111	
KFP 60V30LM	60	5	20	400	2,5	10	500×400×120	
KFP 60V30XLM	60	5	20	400	2,5	22	650×500×139	
KFP 150V30SM	150	10	50	1000	3	10	400×300×111	
KFP 150V30M	150	10	50	1000	3	10	500×400×120	
KFP 150V30LM	150	10	50	1000	2,5	22	650×500×139	
KFP 300V30M	300	20	100	2000	3	22	650×500×139	



8 KERN KFP-V40 IP68
Stainless steel platform

Features

- Platform: entirely out of stainless steel
- 1 load cell, stainless steel, encapsulated, IP68, OIML R60 approval for verification, class III, 3000 e
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard



9 KERN KFP-V40 IP68
Stainless steel weighing bridge

Features

- Weighing bridge entirely made of stainless steel, extremely resistant to bending because of its high material thickness
- 6 Weighing plate fixed with stainless steel screws, for easier access to the loadcells from above
- 4 stainless steel load cells with protection against dust and water splashes to 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, fitted as standard
- Comfortable levelling of the weighing bridge from the top



10 KERN KFD-V40 IP68
Stainless steel weighing bridge

Features

- 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



Discover more details and matching accessories online!

STANDARD: LC IP 68, 1 DAY — FACTORY: M

STANDARD: LC IP 68, 2 DAYS — FACTORY: M

STANDARD: LC IP 68, 2 DAYS — FACTORY: M

13

Model	Weighing capacity	Readability	Verification value	Minimal load	Cable length	Net weight	Weighing plate	Price on request
KERN	[Max] kg	[d] g	[e] g	[Min] g	approx. m	approx. kg	W×D×H mm	
8 Stainless steel platform KFP-V40 IP68								
KFP 6V40M	6	0,5	1 | 2	20	3	7	300×240×107	
KFP 15V40M	15	1	2 | 5	40	3	4,8	300×240×107	
KFP 15V40LM	15	1	2 | 5	40	3	7	400×300×111	
KFP 30V40M	30	2	5 | 10	100	3	8	400×300×111	
KFP 30V40LM	30	2	5 | 10	100	3	11	500×400×120	
KFP 60V40M	60	5	10 | 20	200	3	10	400×300×123	
KFP 60V40LM	60	5	10 | 20	200	3	11	500×400×126	
KFP 150V40M	150	10	20 | 50	400	3	12	500×400×126	
KFP 150V40LM	150	10	20 | 50	400	3	20	650×500×139	
KFP 300V40M	300	20	50 | 100	1000 | 2000	3	20	650×500×139	
9 Stainless steel weighing bridge KFP-V40 IP68								
KFP 600V40SM	600	200	200	4000	5	95	1000×1000×85	
KFP 1500V40SM	1500	500	500	10000	5	95	1000×1000×85	
KFP 1500V40M	1500	500	500	10000	5	150	1500×1250×85	
KFP 3000V40M	3000	1000	1000	20000	5	145	1500×1250×85	
10 Stainless steel weighing bridge KFD-V40 IP68								
KFD 600V40M	600	200	200	4000	5	130	1600×1220×95	
KFD 1500V40M	1500	500	500	10000	5	130	1600×1220×95	

LOAD CELLS

Accuracy classes with nominal loads from 300 g to 100 t and protection classes up to IP69K as well as cells protected according to ATEX or OIML approved cells are available to you from now in the SAUTER product range. Whatever the project – whether it's the development of customised weighing systems, installation in silos and storage tanks or in shelving for continuous inventory, for special application in mechanical engineering or in any type of test bench – SAUTER can offer you just the right load cell.

Of course, we can also supply you with the appropriate accessories such as load corners, pivot heads, display devices, junction boxes or the relevant calibration certificate at the same time.

Any special requests? Do you need special load cells, other capacities or cable lengths, individual force test benches or a special mount for your test item?

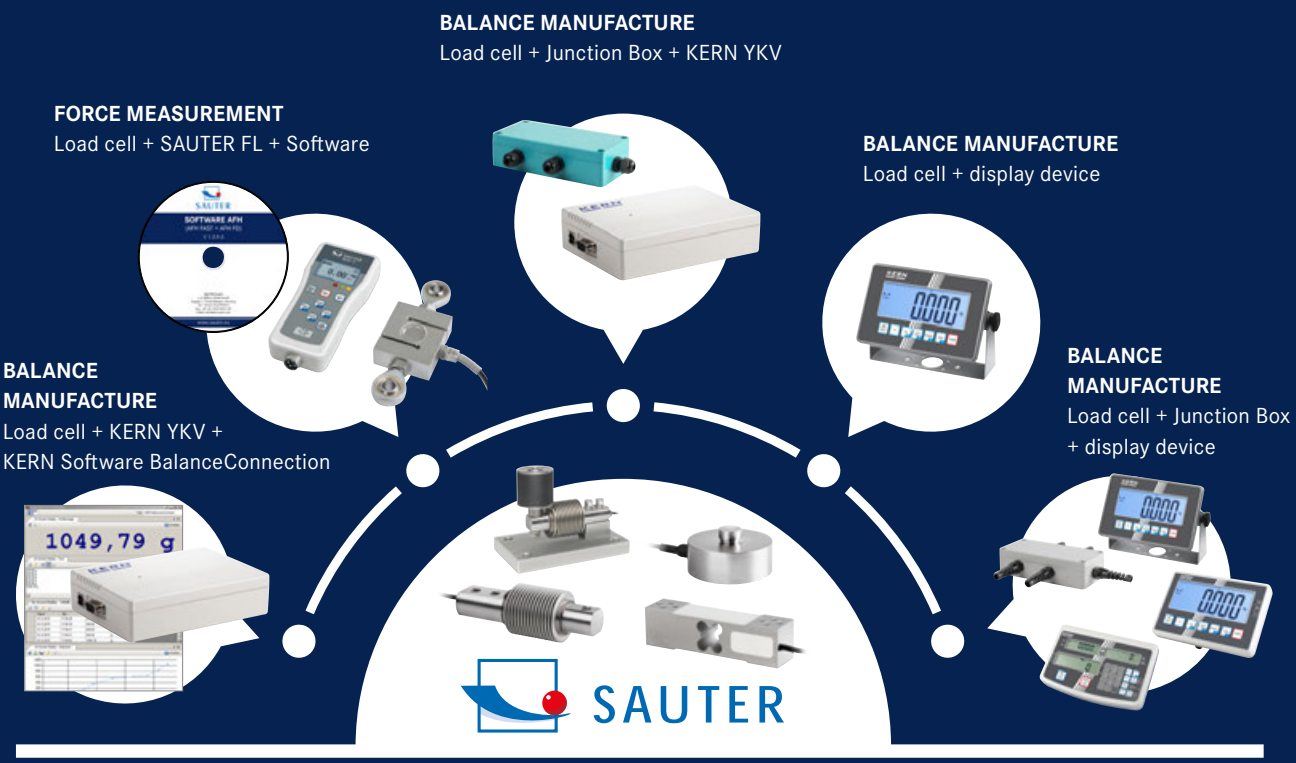
No problem, our product specialist for force-load cells Mr Stefan Herrmann is available at any time to help you further and will work with you to develop a customised concept for your application.



Everything about load cells in the SAUTER catalogue 2026



Stefan Herrmann
Product specialist
Load cells
Tel. +49 7433 9933-214
stefan.herrmann@kern-sohn.com



SAUTER load cells – integration opportunities







CP P4 · CP Y4
Single-point load cell made of anodised aluminium

Technical data

- CP P4: Accuracy in accordance with OIML R60 C3
- CP Y4: Accuracy in accordance with OIML R60 C2
- CE and RoHS compliant
- Protection against dust and water splashes IP65 (in accordance with EN 60529)
- Aluminium, anodised
- Suitable for price-computing scales, bench scales, platform scales, etc.
- Maximum platform size: 200×200 mm
- Nominal sensitivity: 0,9 mV/V
- 4-wire connection
- Cable length approx. 0,4 m

STANDARD: IP 65, 1 DAY — OPTION: DAkkS, ISO

Model	Nominal load	Price on request
SAUTER	kg	
CP 300-0P4	0,3	
CP 600-0P4	0,6	
ECO design		
CP 300-0Y4	0,3	
CP 1500-0Y4	1,5	
CP 3000-0Y4	3	

CP P1 · CP Y1
Single-point load cell made of anodised aluminium

Technical data

- CP P1: Accuracy in accordance with OIML R60 C3
- CP Y1: Accuracy in accordance with OIML R60 C2
- CE and RoHS compliant
- Protection against dust and water splashes IP65 (in accordance with EN 60529)
- Aluminium, anodised
- Suitable for price-computing scales, bench scales, platform scales, etc.
- Maximum platform size: 250×350 mm
- Nominal sensitivity: 2 mV/V
- 4-wire connection
- Note: Version in accordance with OIML R60 C4 or C5 on request

STANDARD: IP 65, 1 DAY, M (CP P1) — OPTION: DAkkS, ISO

Model	Nominal load	Cable length	Price on request
SAUTER	kg	m	
CP 3-3P1	3	0,4	
CP 3-2-3P1	3	2	
CP 5-3P1	5	0,4	
CP 6-3P1	6	0,4	
CP 8-3P1	8	0,4	
CP 10-3P1	10	0,4	
CP 10-3-3P1	10	3	
CP 15-3P1	15	0,4	
CP 15-3-3P1	15	3	
CP 20-3P1	20	0,4	
CP 30-3P1	30	0,4	
CP 35-3P1	35	0,4	
CP 35-3-3P1	35	3	
CP 40-3P1	40	0,4	
CP 50-3P1	50	0,4	
CP 50-2-3P1	50	2	
ECO design (without EC type approval)			
CP 3-2Y1	3	0,45	
CP 5-2Y1	5	0,45	
CP 10-2Y1	10	0,45	
CP 15-2Y1	15	0,45	
CP 20-2Y1	20	0,45	
CP 30-2Y1	30	0,45	
CP 100-3-3Y1	100	3	

CP P3
Single-point load cell made of anodised aluminium

Technical data

- Accuracy in accordance with OIML R60 C3
- CE and RoHS compliant
- Protection against dust and water splashes IP65 (in accordance with EN 60529)
- Aluminium, anodised
- Suitable for price-computing scales, bench scales, platform scales, etc.
- Maximum platform size: 350×400 mm
- Nominal sensitivity: 2 mV/V
- 4-wire connection
- Cable length approx. 3 m
- Note: Version in accordance with OIML R60 C4 or C5 on request

STANDARD: IP 65, 1 DAY — OPTION: DAkkS, ISO

Model	Nominal load	Price on request
SAUTER	kg	
CP 30-3P3	30	
CP 40-3P3	40	
CP 50-3P3	50	
CP 75-3P3	75	
CP 100-3P3	100	

Discover more details and matching accessories online!

13







CP P2
Single-point load cell made of aluminium

Technical data

- Accuracy in accordance with OIML R60 C3
- RoHS compliant
- Protection against dust and water splashes IP65 (in accordance with EN 60529)
- Aluminium alloy, anodized
- Suitable for price computing scales, bench scales etc.
- Maximum platform size
  100 – 300 kg: 400×400 mm
  400 – 500 kg: 450×450 mm
- 4-wire connection
- Nominal sensitivity: 2 mV/V
- Cable length: 2 m
- Note: Version in accordance with OIML R60 C4 or C5 on request

CP P7
Single-Point load cell made of stainless steel

Technical data

- Accuracy in accordance with OIML R60 C3
- RoHS compliant
- Protection against dust and water splashes IP67 (in accordance with EN 60529)
- Stainless steel
- Area of application: Mass as well as compressive force measurement in harsh environmental conditions
- Suitable for price computing scales, bench scales etc.
- Maximum platform size: 400×400 mm
- 6-wire connection
- Nominal sensitivity: 2 mV/V
- Cable length: 1 m
- Note: Version in accordance with OIML R60 C4 or C5 on request

CP P8
Single-point load cell made of aluminium

Technical data

- Accuracy in accordance with OIML R60 C3
- RoHS compliant
- Protection against dust and water splashes IP65 (in accordance with EN 60529)
- Aluminium alloy, anodized
- Suitable for price computing scales, bench scales etc.
- Maximum platform size 600×600 mm
- 6-wire connection
- Nominal sensitivity: 2 mV/V
- Cable length: 3 m
- Note: Version in accordance with OIML R60 C4 or C5 on request

13

Discover more details and matching accessories online!

STANDARD: IP 65, 1 DAY — OPTION: DAkkS, ISO

Model	Nominal load	Price on request
SAUTER	kg	
CP 100-3P2	100	
CP 150-3P2	150	
CP 200-3P2	200	
CP 300-3P2	300	
CP 400-3P2	400	
CP 500-3P2	500	

STANDARD: IP 67, 1 DAY — OPTION: DAkkS, ISO

Model	Nominal load	Price on request
SAUTER	kg	
CP 30-3P7	30	
CP 50-3P7	50	
CP 75-3P7	75	
CP 100-3P7	100	
CP 150-3P7	150	

STANDARD: IP 65, 1 DAY — OPTION: DAkkS, ISO

Model	Nominal load	Price on request
SAUTER	kg	
CP 50-3P8	50	
CP 100-3P8	100	
CP 150-3P8	150	
CP 200-3P8	200	
CP 250-3P8	250	
CP 300-3P8	300	
CP 500-3P8	500	
CP 600-3P8	600	



CR Q1
Loadcell made of stainless steel

Technical data

- Accuracy in accordance with OIML R60 C1
- RoHS compliant
- Protection against dust and water splashes IP68 (in accordance with EN 60529), hermetically encapsulated
- Stainless steel
- Area of application: Measuring mass as well as compressive force
- Suitable for vehicle scales, weigh hoppers, vehicle testing equipment, test stands
- Nominal sensitivity: 2 mV/V
- Cable length 10 m



CR P1
Loadcell made of stainless steel

Technical data

- Accuracy in accordance with OIML R60 C3
- RoHS compliant
- Protection against dust and water splashes IP68 (in accordance with EN 60529), hermetically encapsulated
- Stainless steel
- Area of application: Measuring mass as well as compressive force
- Suitable for weighbridges, handing scales, silo scales and other types of balances, test stands, etc.
- Nominal sensitivity: 1 – 2 mV/V, depending on nominal load
- Cable length
  [Max] ≤ 1000 kg: 3 m
  [Max] ≥ 2000 kg: 6 m



CR Y1
Loadcell made of steel alloy

Technical data

- Accuracy in accordance with OIML R60 C1
- RoHS compliant
- High precision (comprehensive Error 0,05 % F.S.)
- Protection against dust and water splashes IP68 (in accordance with EN 60529), hermetically encapsulated
- Alloy steel
- Area of application: for weight, tensile and compressive force measurement
- Suitable for weight measurement as well as force and force test stands
- Force transmission via pressure piece or threaded hole
- Nominal sensitivity: 2 mV/V
- Cable length: 3 m
- Pressure piece included with delivery
- Thread for pressure piece or other force application: up to 5000 kg M16×1,5, from 10000 kg M32×1,5

13

Discover more details and matching accessories online!

STANDARD: IP 68, 1 DAY
OPTION: ISO [Max] 25 t/ 250 kN

Model	Nominal load	Price on request
SAUTER		
CR 2500-1Q1	2,5 t/25 kN	
CR 5000-1Q1	5 t/50 kN	
CR 10000-1Q1	10 t/100 kN	
CR 20000-1Q1	20 t/200 kN	
CR 30000-1Q1	30 t/300 kN	

STANDARD: IP 68, 4 DAYS
OPTION: DAkkS, ISO [Max] ≤ 500 kg/ 5 kN

Model	Nominal load	Price on request
SAUTER		
CR 60-3P1*	60 kg/0,6 kN	
CR 130-3P1*	130 kg/1,3 kN	
CR 250-3P1*	250 kg/2,5 kN	
CR 500-3P1*	500 kg/5 kN	
CR 2000-3P1*	2000 kg/20 kN	

! * ONLY WHILE STOCKS LAST

STANDARD: IP 68, 1 DAY
OPTION: DAkkS, ISO [Max] ≤ 0,5 t/ 5 kN

Model	Nominal load	Price on request
SAUTER		
CR 500-1Y1	0,5 t/5 kN	
CR 1000-1Y1	1 t/10 kN	
CR 5000-1Y1	5 t/50 kN	
CR 10000-1Y1	10 t/100 kN	
CR 20000-1Y1	20 t/200 kN	





CB Q1 · CB Q2
Bending beam and shear beam load cell made of stainless steel

Technical data

- Accuracy in accordance with OIML R60 C3
- CE and RoHS compliant
- Protection against dust and water splashes IP68/IP69K (in accordance with EN 60529), welded to create a hermetic seal
- Stainless steel
- Area of application: Measuring mass as well as compressive force in harsh environments
- Suitable for platform scales, weigh hoppers, floor scales and other weighing devices
- 4-wire connection
- Nominal sensitivity: 2 mV/V
- Cable length: 3 m
- Note: Accuracy class OIML R60 C6 or EX version on request

CB P1
Bending beam made of nickel-plated steel

Technical data

- Accuracy in accordance with OIML R60 C3
- CE and RoHS compliant
- Protection against dust and water splashes IP67 (in accordance with EN 60529), hermetically encapsulated
- Nickel-plated steel
- Area of application: Measuring mass as well as compressive force in harsh environments
- Suitable for platform scales, silo scales, bed scales and other types of scales
- 4-wire connection
- Nominal sensitivity: 3 mV/V
- Cable length: 3 m

13

STANDARD: IP 68, IP 69K, 1 DAY — OPTION: DAkkS, ISO [Max] ≤ 500 kg

Model	Nominal load	Price on request
SAUTER	kg	
CB 5-3Q1	5	
CB 10-3Q1	10	
CB 20-3Q1	20	
CB 30-3Q1	30	
CB 50-3Q1	50	
CB 75-3Q1	75	
CB 100-3Q1	100	
CB 150-3Q1	150	
CB 200-3Q1	200	
CB 250-3Q1	250	
CB 300-3Q1	300	
CB 500-3Q1	500	
CB 750-3Q2*	750	
CB 1000-3Q2*	1000	
CB 1500-3Q2*	1500	

* ONLY WHILE STOCKS LAST

STANDARD: IP 67, 1 DAY, M — OPTION: DAkkS, ISO

Model	Nominal load	Price on request
SAUTER	kg	
CB 100-3P1	100	
CB 250-3P1	250	

Discover more details and matching accessories online!





CT Q1
Shear beam made of stainless steel

Technical data

- Accuracy in accordance with OIML R60 C3
- CE and RoHS compliant
- Protection against dust and water splashes IP68/IP69K (in accordance with EN 60529), welded to create a hermetic seal
- Stainless steel
- Area of application: Measuring mass as well as compressive force in harsh environments
- Suitable for platform scales, weigh hoppers, flush-mounted floor scales and other weighing devices
- 6-wire connection
- Nominal sensitivity: 2 mV/V
- Cable length: 5 m
- Note: EX version on request

CT P1 · CT P2
Shear beam made of nickel-plated steel

Technical data

- Accuracy in accordance with OIML R60 C3
- CE and RoHS compliant
- Protection against dust and water splashes IP67 (in accordance with EN 60529), welded to create a hermetic seal
- Nickel-plated steel
- Area of application: Measuring mass as well as compressive force in harsh environments
- Suitable for platform scales, weigh hoppers, flush-mounted floor scales and other weighing devices
- 4-wire connection
- Nominal sensitivity: 3 mV/V
- Cable length
  [Max] ≤ 1000 kg: 4 m
  [Max] ≥ 1500 kg: 6 m
- CT P2: Delivery with calibrated sensitivity, when ordering several cells

STANDARD: IP 68, IP 69K, 1 DAY

OPTION: DAkkS, ISO [Max] ≤ 500 kg

Model	Nominal load	Price on request
SAUTER	kg	
CT 300-3Q1	300	
CT 500-3Q1	500	
CT 750-3Q1	750	
CT 1000-3Q1	1000	
CT 1500-3Q1	1500	
CT 2000-3Q1	2000	
CT 3000-3Q1	3000	
CT 5000-3Q1	5000	
CT 7500-3Q1	7500	
CT 10000-3Q1	10000	

STANDARD: IP 67, 1 DAY, M

OPTION: DAkkS, ISO [Max] ≤ 500 kg

Model	Nominal load	Price on request
SAUTER	kg	
CT 500-3P1	500	
CT 1000-3P1	1000	
CT 1500-3P1	1500	
CT 2500-3P1	2500	
CT 3000-3P1	3000	
CT 5000-3P1	5000	
CT 10000-3P1	10000	
CT 500-3P2	500	
CT 1000-3P2	1000	
CT 5000-3P2	5000	
CT 3000-3P2	3000	
CT 10000-3P2	10000	

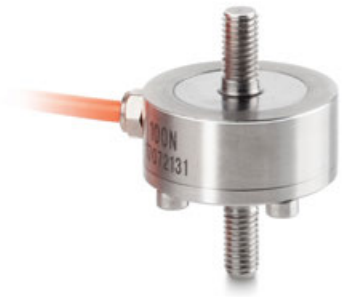
Discover more details and matching accessories online!



CO Y1
Miniature cylindrical load cell made of stainless steel

Technical data

- Accuracy in accordance with OIML G5
- High precision (comprehensive Error 0,5% F.S.)
- RoHS compliant
- Protection against dust and water splashes IP65
- Area of application: Compressive applications
- Suitable for weight measurement as well as force and force test stands
- Nominal sensitivity: 1,0 – 1,5 mV/V, depending on nominal load
- Cable length: 2 m



CO Y2
Miniature cylindrical load cell made of stainless steel

Technical data

- Accuracy in accordance with OIML G5
- High level of accuracy (Comprehensive error 0,5% F. S.)
- RoHS compliant
- Protection against dust and water splashes IP65
- Area of application: Tensile and compressive applications
- Suitable for weight measurement as well as force and force test stands
- Nominal sensitivity: 1,5 – 2 mV/V, depending on nominal load
- Cable length: 2 m



CO Y5
Tension and compression force measuring cell made of stainless steel

Technical data

- Accuracy in accordance with OIML R60 G1
- CE and RoHS compliant
- Protection against dust and water splashes IP66 (in accordance with EN 60529)
- Stainless steel
- Very low design
- Suitable for test stands, force gauges, automation systems, etc.
- 4-wire connection
- Nominal sensitivity:
  CO 0.5-Y5, CO 1-Y5: 1 mV/V
  CO 5-Y5, CO 10-Y5: 2 mV/V
- Cable length: 2 m

13

Discover more details and matching accessories online!

STANDARD: IP 65, 1 DAY
OPTION: DAkkS, ISO
[Max] ≤ 500 kg/ 5 kN

Model	Nominal load	Price on request
SAUTER		
CO 10-Y1	10 kg/100 N	
CO 20-Y1	20 kg/200 N	
CO 50-Y1	50 kg/500 N	
CO 100-Y1	100 kg/1 kN	
CO 200-Y1	200 kg/2 kN	
CO 500-Y1	500 kg/5 kN	
CO 1000-Y1	1000 kg/10 kN	
CO 2000-Y1	2000 kg/20 kN	

STANDARD: IP 65, 1 DAY
OPTION: DAkkS, ISO
[Max] ≤ 500 kg/ 5 kN

Model	Nominal load	Price on request
SAUTER		
CO 10-Y2	10 kg/100 N	
CO 20-Y2	20 kg/200 N	
CO 50-Y2	50 kg/500 N	
CO 100-Y2	100 kg/1 kN	
CO 200-Y2	200 kg/2 kN	
CO 500-Y2	500 kg/5 kN	
CO 1000-Y2	1000 kg/10 kN	
CO 2000-Y2	2000 kg/20 kN	

STANDARD: IP 66, 1 DAY
OPTION: DAkkS, ISO
[Max] ≥ 1 kg/ 10 N

Model	Nominal load	Price on request
SAUTER		
CO 0.5-Y5	500 g/5 N	
CO 1-Y5	1 kg/10 N	
CO 5-Y5	5 kg/50 N	
CO 10-Y5	10 kg/100 N	



CJ P4



CJ P4PG



CJ X467



CJ X468

CJ P
Junction box for the connection of several measuring cells to an evaluation unit

Features

- Prepared for 4-wire and 6-wire measuring cells
- The robust aluminium diecast housing
- Protection against dust and water splashes

CJ X
Junction box for the connection of several measuring cells to an evaluation unit

Features

- Prepared for 4-wire and 6-wire measuring cells

CJ X467
- Robust housing made of stainless steel with IP67 dust and spray protection

CJ X468
- The robust aluminium diecast housing, protection against dust and water splashes IP68

Discover more details and matching accessories online!

13

STANDARD

IP 65 · 1 DAY

Model	Number of connection options	Price on request
SAUTER		
CJ P4PG	4	
CJ P4	4	

STANDARD

IP 67 (CJ X467) · IP 68 (CJ X468) · 1 DAY

Model	Number of connection options	Price on request
SAUTER		
CJ X468	4	
CJ X467	4	

14



PALLET TRUCK SCALES

Weighing and transporting – just one operation
Speed up your warehouse and dispatch processes with the KERN pallet truck scales.

Get the exact weight of a load and at the same time, transport it to a specific location, all in one operation. This reduces commissioning times and avoids queues in front of fixed floor scales.

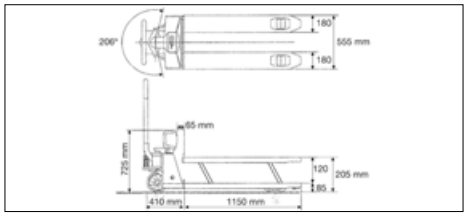
These mobile weighing solutions are space-saving and deliver reliable weighing results. Differences between given and actual weights can be determined quickly e.g. in the goods-in and out department. This uncovers inaccurate quantities, saves time and money and therefore ensures a very short amortisation period of the scales original cost.

KERN pallet truck scales are of robust industrial quality, with high-level protection against dust and water splashes, with high-contrast, easy-to-read displays as well as solid wheels and load rollers – all this helps to give you practical support in your work – day after day.









Discover more details and matching accessories online!

Pallet truck scale with complete protection against dust and water splashes IP65/67 and a memory for a container weight

Features

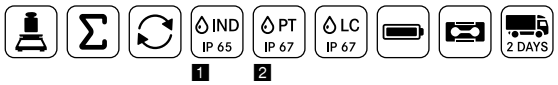
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- 1 Display device: Plastic, protected against dust and water splashes IP65
- 2 Load fork: Protection against dust and water splashes IP67, temporary use in wet areas possible
- Pivot range 206°
- Castors: Solid rubber on aluminium rims
- 3 Load rollers: Tandem tyres to overcome thresholds and obstacles more easily
- Summation of weight values

Technical data

- Large LCD display, digit height 28 mm
- Ready for use: Batteries standard, 4×1.5 V AA, operating time approx. 80 h
- Permissible ambient temperature -10 °C/40 °C

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

STANDARD



OPTION



Model	Weighing capacity	Readability	Linearity	Net weight	Price on request	Options
						Calibr. Certificate
KERN	[Max] kg	[d] kg	kg	approx. kg		DAkkS accr. KERN
VHB 2T1	2000	1	± 2	110		963-131

JUST SURFACED!



Take advantage of the latest innovations in measuring and weighing technology and dive into a world of precision, quality and versatility. Discover over 5,000 high-quality products and numerous services – perfectly tailored to your professional requirements. The new KERN product catalogues 2026 are available in five languages!

BALANCES AND TEST SERVICE

Get a full overview of the wide range from KERN, including our high-quality balances, test weights and services such as verification and calibration services.

MEDICAL SCALES

Our medical scales cover the full array:
baby scales to personal scales, chair scales and adiposity scales through to hand grip dynamometers, pharmaceutical balances and veterinary scales, we offer the complete range.

MICROSCOPES AND REFRACTOMETERS

Discover our large range of optical instruments, such as, for example our compound, polarisation or fluorescence microscopes, or our analogue and digital refractometers.

SAUTER MEASURING TECHNOLOGY

From force-measuring devices through to hardness measuring equipment and on to measuring cells - you can find everything you need for accurate, reliable measurements.

TEST SERVICE BROCHURE

Detailed information on all topics pertaining to the calibration and conformity assessment of balances, test weights and measuring devices.

All catalogues and information material are available for you to download as PDF files from our website:
www.kern-sohn.com/shop/en/DOWNLOADS



15

HANGING SCALES, CRANE SCALES

TÜV-tested safety
KERN puts great emphasis on safety. For your safety, all KERN hanging and crane scales are subject to a stringent load test in accordance with EN 13155 and (Non-fixed load lifting attachments/breakage resistance) and EN 61010-1 (Electrical safety).

As well as the classic crane scales, we also have electronic tensile dynamometers which are extremely versatile thanks to their stable, compact construction. They can, for example, be fitted into testing machines, used for checking for overload, for bracing and tensile force measurement, etc.

This type of device is ideally suited for use between shackles or with a test bench. This is where the benefit of this construction comes to the fore, as the tensile force can be applied in both directions. These compact crane scales are also particularly suitable when weighing suspended loads where space is tight.

At the core of this construction is a robust load cell. Through the absence of moving parts, these scales are practical in maintenance and wear free.

Note: Calibration accredited by DAkkS and conformity evaluation for crane scales up to 12 t



Do you use your crane scales in ISO-certified processes or where verification is mandatory? Then we can produce the right calibration certificate or the relevant Declaration of Conformity for your measuring device. Thanks to a modern crane scale test unit, we can calibrate or verify crane scales and force-measuring devices from any manufacturer to a maximum load of up to 12 t or 120 kN.

All the important details see *DAkkS Calibration Service* or directly from one of our test service specialists, we will be pleased to help you.

Quick-Finder Hanging Scales/Crane Scales

Readout [d] kg	Weighing range [Max] kg	**Model** **KERN**	**Price on request**	Page	M			IP		
					For an explanation on the pictos, see the front flap					
0,005	5	**HDB 5K5N**		154		●	●		●	
0,01	10	**HDB 10K10N**		154		●	●		●	
0,01	15	**HDB 10K-2XL**		154		●	●		●	
0,01	20	**HCB 20K10**		155		●	●		●	
0,02	15	**CH 15K20**		153		●	●		●	
0,02	30	**HDB 30K-2XL**		154		●	●		●	
0,02	50	**HCB 50K20**		155		●	●		●	
0,02	60	**HCD 60K-2**		157		●	●		●	○
0,02 | 0,05	60 | 150	**HCD 100K-2D**		157		●	●		●	○
0,05	50	**CH 50K50**		153		●	●		●	
0,05	99	**HCB 99K50**		155		●	●		●	
0,05	150	**HCD 100K-2**		157		●	●		●	○
0,05 | 0,1	150 | 300	**HCD 300K-2D**		157		●	●		●	○
0,05 | 0,1 | 0,2	150 | 300 | 600	**HFD 600K-1**		160		●				●
0,05 | 0,1 | 0,2	150 | 300 | 600	**HFD 600K-1IP**		160		●		●		●
0,1	50	**CH 50K100**		153		●	●		●	
0,1	50	**HCB 50K100**		155		●	●		●	
0,1	50	**HCN 50K100IP**		156		●	●	●	●	
0,1	200	**HCB 200K100**		155		●	●		●	
0,1	300	**HCD 300K-1**		157		●	●		●	○
0,1	1000	**HFM 1T0.1**		162		●				●
0,1 | 0,2 | 0,5	300 | 600 | 1500	**HFD 1T-4**		160		●				●
0,1 | 0,2 | 0,5	300 | 600 | 1500	**HFD 1T-4IP**		160		●		●		●
0,2	100	**HCB 100K200**		155		●	●		●	
0,2	100	**HCN 100K200IP**		156		●	●	●	●	
0,2	600	**HFA 600K-1**		158		●			●	●
0,2	600	**HFC 600K-1**		159		●			●	●
0,2	600	**HFD 600K-1M**		160	○	●				●
0,2 | 0,5 | 1	600 | 1500 | 3000	**HFD 3T-3**		160		●				●
0,2 | 0,5 | 1	600 | 1500 | 3000	**HFD 3T-3IP**		160		●		●		●
0,5	200	**HCB 200K500**		155		●	●		●	
0,5	200	**HCN 200K500IP**		156		●	●	●	●	
0,5	1000	**HFA 1T-4**		158		●			●	●
0,5	1000	**HFC 1T-4**		159		●			●	●
0,5	1500	**HFD 1T-4M**		160	○	●				●
0,5	3000	**HFM 3T0.5**		162		●				●
0,5	5000	**HFM 5T0.5**		162		●				●
0,5 | 1 | 2	1500 | 3000 | 6000	**HFD 6T-3**		160		●				●
0,5 | 1 | 2	1500 | 3000 | 6000	**HFD 6T-3IP**		160		●		●		●
1	500	**HCB 0.5T-3**		155		●	●		●	
1	3000	**HFA 3T-3**		158		●			●	●
1	3000	**HFC 3T-3**		159		●			●	●
1	3000	**HFD 3T-3M**		160	○	●				●
1	10000	**HFM 10T1**		162		●				●
1 | 2 | 5	3000 | 6000 | 12000	**HFD 10T-3**		160		●				●
1 | 2 | 5	3000 | 6000 | 12000	**HFD 10T-3IP**		160		●		●		●
2	1000	**HCB 1T-3**		155		●	●		●	
2	5000	**HFA 5T-3**		158		●			●	●
2	5000	**HFC 5T-3**		159		●			●	●
2	6000	**HFD 6T-3M**		160	○	●				●
5	10000	**HFA 10T-3**		158		●			●	●
5	10000	**HFC 10T-3**		159		●			●	●
5	12000	**HFD 10T-3M**		160	○	●				●

● Standard ○ Option







Discover more details and matching accessories online!

The classic among manual hanging scales – perfect for rapid weighing of higher loads

Features

- 1 With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- Ideal for rapid control in goods-in and goods-out
- Also essential in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- Hold function: For easy reading of the weighing result, the display can be „frozen“ in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- Peak load display (peak hold)
- Hook made of steel

Technical data

- LCD display, digit height 11 mm
- 2 Tape measure, extractable, length approx. 100 cm
- Ready for use: Batteries included, 9 V block, operating time up to 80 h
- Weighing units: kg, lb, N
- Overall dimensions W×D×H 90×30×283 mm
- Net weight approx. 0,35 kg
- Permissible ambient temperature 5 °C/35 °C

15

STANDARD



OPTION



Model	Weighing capacity	Readability	Price on request	Options
				Calibr. Certificate
KERN	[Max] kg	[d] g		DAkkS accr. KERN
CH 15K20	15	20		963-128H
CH 50K50	50	50		963-128H
CH 50K100	50	100		963-128H



KERN HDB-N



KERN HDB-XL

1

Discover more details and matching accessories online!

User-friendly hanging scale for rapid, mobile weighing

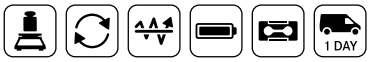
Features

- 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)
- HDB-XL: High-capacity XL-version. The larger design creates space for a large handle, which enables even better handling especially with heavier loads
- 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
- Hook, steel, included with the delivery. Can be hinged on HDB-N models
- Peak load display (peak hold)

Technical data

- LCD display, digit height 12 mm
- Ready for use: Batteries included, 2×1.5 V AAA, operating time up to 100 h
- Weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

STANDARD



OPTION



Model	Weighing capacity	Readability	Dimensions	Net weight	Price on request	Options
						Calibr. Certificate
KERN	[Max] kg	[d] g	W×D×H mm	approx. kg		DAkkS accr. KERN
HDB 5K5N	5	5	72×25×188	0,20		963-127H
HDB 10K10N	10	10	72×25×188	0,20		963-128H
			High-capacity XL-version			
HDB 10K-2XL	15	10	101×25×203	0,25		963-128H
HDB 30K-2XL	30	20	101×25×211	0,25		963-128H





1



2

Discover more details and matching accessories online!

Handy hanging scale for higher loads

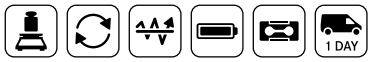
Features

- 1 With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- Ideal for rapid control in goods-in and goods-out
- Also essential in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- Hold function: For easy reading of the weighing result, the display can be „frozen“ in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- Peak load display (peak hold), Measuring frequency 5 Hz
- [Max] ≤ 200 kg: Snap link (stainless steel) with safety catch and hook (stainless steel) as standard, see larger picture
- 2 [Max] ≥ 500 kg: Reinforced version for heavy loads. Snap link and hook not included, see *internet*

Technical data

- LCD display, digit height 12 mm
- Hole diameter of load support, model with
  [Max] ≤ 200 kg: approx. 14 mm
  [Max] ≥ 500 kg: approx. 16 mm
- Weighing units: kg, lb, N
- Ready for use: Batteries included, 3×1.5 V AA, operating time up to 300 h
- Permissible ambient temperature 5 °C/35 °C

STANDARD



OPTION



Model KERN	Weighing capacity [Max] kg	Readability [d] g	Dimensions housing W×D×H mm	Net weight approx. kg	Price on request	Options Calibr. Certificate DAkkS accr. KERN
HCB 20K10	20	10	82×43×153	0,30		963-128H
HCB 50K20	50	20	82×43×153	0,30		963-128H
HCB 99K50	99	50	82×43×153	0,30		963-129H
HCB 50K100	50	100	82×43×153	0,30		963-128H
HCB 200K100	200	100	82×43×153	0,30		963-129H
HCB 100K200	100	200	82×43×153	0,30		963-129H
HCB 200K500	200	500	82×43×153	0,30		963-129H
HCB 0.5T-3	500	1000	82×43×153	0,40		963-130H
HCB 1T-3	1000	2000	82×48×153	0,60		963-130H







Discover more details and matching accessories online!

Robust, compact hanging scale with high level of protection against dust and water spray

Features

- 1 With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- 2 Housing stainless steel, IP65-protected against dust and water splashes
- Ideal for rapid control in goods-in and goods-out
- Also essential in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- Hold function: For easy reading of the weighing result, the display can be „frozen“ in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- Peak load display (peak hold)
- Internal measuring frequency: 5 Hz
- Snap link (stainless steel) with safety catch as standard
- Hook (stainless steel) as standard

Technical data

- LCD display, digit height 12 mm
- 3 Second display on the back of the balance
- Hole diameter of load support ca. 14 mm
- Ready for use: Batteries included, 2×1.5 V AA, operating time up to 300 h
- Weighing units: kg, lb, N
- Overall dimensions W×D×H 96×48×179 mm
- Net weight approx. 0,50 kg
- Permissible ambient temperature 5 °C/35 °C

STANDARD



OPTION



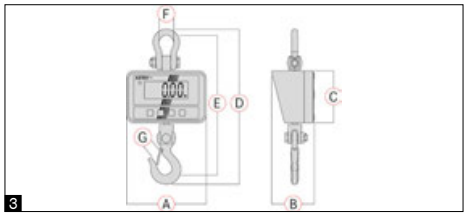
Model	Weighing capacity	Readability	Price on request	Options
				Calibr. Certificate
KERN	[Max] kg	[d] g		DAkkS accr. KERN
HCN 50K100IP	50	100		963-128H
HCN 100K200IP	100	200		963-129H
HCN 200K500IP	200	500		963-129H





1


2



3

Discover more details and matching accessories online!

High-resolution crane scale for loads up to 300 kg

Features

- 1 With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- Fully-equipped crane scale for low to medium load ranges. The solid design guarantees that extra level of safety (TÜV tested). Thanks to the large LCD display and the remote control which is delivered as standard, it can also be operated safely from a distance and results can be read off
- Thanks to battery operation/rechargeable battery operation (optional), compact, light-weight construction, it is suitable for the use in several locations
- Battery level indicator, LED visual display
- Hold function: For easy reading of the weighing result, the display can be „frozen“ in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- Tare: Resets the display to „0“ when there is a load on the scale. Now removed or added loads are directly displayed
- Large high-contrasted display that is easy to read
- Standby function: display automatically switched off after 5 min without a change of load. Automatic activation with the touch of a key
- Hook with safety catch, revolving
- Shackle and safety catch made of nickel-plated steel
- 2 Infrared remote control standard, range up to 20 m, W×D×H 65×24×100 mm, batteries included

Technical data

- Backlit LCD display, digit height 28 mm
- Ready for use: Batteries included, 4×1.5 V AA, operating time up to 100 h
- Precision: 0,2% of [Max]
- Weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/40 °C

STANDARD



OPTION



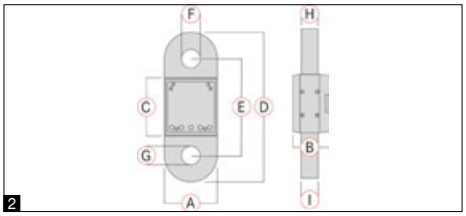
Model	Weighing capacity [Max]	Readability [d]	Net weight	3 Dimensions							Price on request	Options
												Calibr. Certificate
KERN	kg	g	approx. kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm		DAkkS accr. KERN
HCD 60K-2*	60	20	1,2	150	79,3	97,7	276,1	246,5	26	18		963-129H
HCD 100K-2	150	50	1,2	150	79,3	97,7	276,1	246,5	26	18		963-129H
HCD 300K-1	300	100	1,2	150	79,3	97,7	276,1	246,5	26	18		963-129H
Multi-division balance, with increasing or decreasing load, it switches automatically to the next largest or smallest weighing range [Max] and readout [d].												
HCD 100K-2D	60 | 150	20 | 50	1,2	150	79,3	97,7	276,1	246,5	26	18		963-129H
HCD 300K-2D	150 | 300	50 | 100	1,2	150	79,3	97,7	276,1	246,5	26	18		963-129H

! * ONLY WHILE STOCKS LAST



1

2



Discover more details and matching accessories online!

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

Features

- 1 With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- With its high-quality finish, low weight and compact dimensions, this crane scale (tensile force gauge) is an essential device for industrial use
- Because of its compact design it is also ideally suited for installation in systems where space is limited, etc.
- Ideally suited for determining weight quickly while loading and unloading
- Peak load display (peak hold)
- Hold function: For easy reading of the weighing result, the display can be „frozen“ by pressing the Hold key
- Tare: Resets the display to „0“ when there is a load on the scale. Now removed or added loads are directly displayed

Technical data

- Large backlit LCD display, digit height 23 mm
- Material and design of housing/load support, models with
  [Max] ≤ 3 t: aluminium/stainless steel bushing
  [Max] > 3 t: steel/steel
- Rechargeable battery pack integrated, as standard, operating time up to 30 h without backlight, charging time approx. 12 h
- Optional battery operation, 3×1.5 V AA not included in scope of delivery, operating time up to 30 h
- Precision: 0,2% of [Max]
- Internal measuring frequency: 60 Hz
- Weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

STANDARD



OPTION

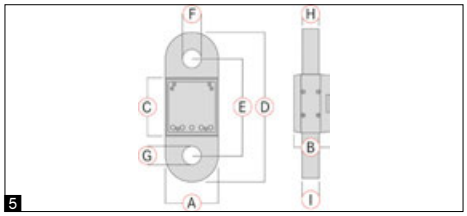


Model	Weighing capacity [Max]	Readability [d]	Net weight	2 Dimensions									Price on request	Options
														Calibr. Certificate
KERN	kg	g	approx. kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm		DAkkS accr. KERN
HFA 600K-1	600	200	1,8	90	62	100	255	165	27	27	30	30		963-130H
HFA 1T-4	1000	500	1,8	90	62	100	255	165	27	27	30	30		963-130H
HFA 3T-3	3000	1000	2,0	90	62	100	255	165	27	27	30	30		963-132H
HFA 5T-3	5000	2000	4,0	90	62	100	255	165	30	30	30	30		963-132H
HFA 10T-3	10000	5000	6	90	72	100	275	185	40	40	40	40		963-133H





1



5

Discover more details and matching accessories online!

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

Features

- 1 With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- With its high-quality finish, low weight and compact dimensions, this crane scale (tensile force gauge) is an essential device for industrial use
- Because of its compact design it is also ideally suited for installation in systems where space is limited, etc.
- Peak load display (peak hold)
- Hold function: For easy reading of the weighing result, the display can be „frozen“ by pressing the Hold key
- Tare: Resets the display to „0“ when there is a load on the scale. Now removed or added loads are directly displayed
- Display device with integrated radio module, which the user can carry around with him, thanks to the convenient hand strap, standard. In this way the weighing data can always be read off the display device by the user, even when the user is a long way from the load receptor (force gauge) or under poor lighting conditions. Range up to 20 m. All functions can be selected

Technical data

- Material and design of housing/load support, models with
  [Max] ≤ 3 t: aluminium/stainless steel bushing
  [Max] > 3 t: steel/steel
- Precision: 0,2% of [Max]
- Internal measuring frequency: 10 Hz
- Weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

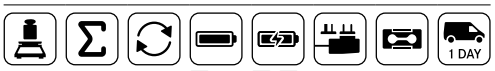
Display device

- Large backlit LCD display, digit height 23 mm
- 2 Rechargeable battery pack integrated, as standard, operating time up to 30 h without backlight, charging time approx. 12 h
- Dimensions of display device W×D×H 88×64×256 mm

Load receptor

- 3 Internal rechargeable battery pack included with the delievery, Operating time up to 35 h without backlight, charging time approx. 8 h
- 4 Optional battery operation, 3×1.5 V AA not included in scope of delivery, operating time up to 40 h

STANDARD



4 2, 3

OPTION



Model	Weighing capacity [Max]	Readability [d]	Net weight	5 Dimensions									Price on request	Options
														Calibr. Certificate
KERN	kg	g	approx. kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm		DAkkS accr. KERN
HFC 600K-1	600	200	1,8	90	62	100	255	165	27	27	30	30		963-130H
HFC 1T-4	1000	500	1,8	90	62	100	255	165	27	27	30	30		963-130H
HFC 3T-3	3000	1000	2,2	90	62	100	255	165	27	27	30	30		963-132H
HFC 5T-3	5000	2000	4,0	90	62	100	255	165	30	30	30	30		963-132H
HFC 10T-3	10000	5000	6	90	72	100	275	185	40	40	40	40		963-133H



KERN HFD/HFD-IP



KERN HFD-M

Robust, high-resolution crane scale up to 12 t, also with optional verification or protection type IP67



High mobility: thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department, etc.)



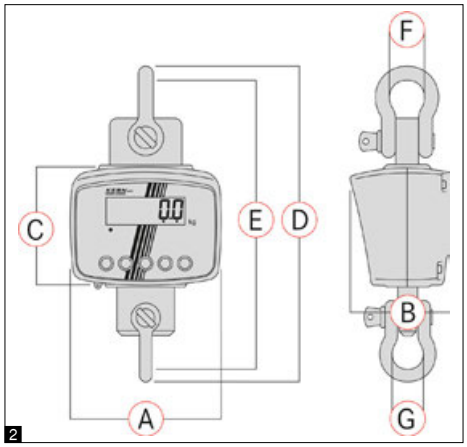
Solid shackles, non-revolving



Radio remote control standard. Range up to 20 m. All functions can be selected (excl. ON/OFF). W×D×H 65×24×100 mm. Batteries included, 1×12V, 23A



1



2

Discover more details and matching accessories online!

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

KERN HFD/HFD-IP

- Hold function: the weight display is “frozen” when the Hold button is pressed

KERN HFD-IP

- The models with IP add-on have special spray and dust protection to IP67 and because of this they are ideal for use in harsh environments

KERN HFD-M

- The models with M add-on can be verified optionally and because of this they are ideal for use in verified applications such as, for example, calculation of a total price, based on weight
- Will support you when weighing freight in a SOLAS compliant manner
- Sleep function: when the sleep button is pressed, the weight display is switched off, but the value remains stored. This can extend the battery life

Technical data

- Superior display size: digit height 30 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- Rechargeable battery pack integrated, as standard, operating time up to 70 h without backlight, charging time approx. 12 h. Battery pack accessible from the outside, which means it is easy to replace
- Precision: 0,2% of [Max]
- Weighing units: kg
- Permissible ambient temperature -10 °C/40 °C

STANDARD | OPTION | FACTORY

HFD/ HFD-IP | IP 67 HFD-IP | 1 DAY | DAkkS | M HFD-M

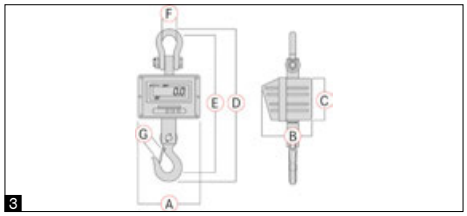
Model	Weighing capacity	Readability	Net weight approx.	2 Dimensions						Price on request	Options	
				A	B	C	D	E	F=G		Verification	Calibr. Certificate
KERN	[Max] kg	[d] g	kg	mm	mm	mm	mm	mm	mm		M III KERN	DAkkS accr. KERN
Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range												
HFD 600K-1	150 | 300 | 600	50 | 100 | 200	9	194	129	160	422	384	50,8		-	- 963-130H
HFD 1T-4	300 | 600 | 1500	100 | 200 | 500	9	194	129	160	422	384	50,8		-	- 963-130H
HFD 3T-3	600 | 1500 | 3000	200 | 500 | 1000	10	194	129	160	457	413	58		-	- 963-132H
HFD 6T-3	1500 | 3000 | 6000	500 | 1000 | 2000	15	194	129	160	518	467	68,3		-	- 963-132H
HFD 10T-3	3000 | 6000 | 12000	1000 | 2000 | 5000	22	194	129	160	584	521	82,5		-	- 963-133H
Protection against dust and water splashes IP67												
HFD 600K-1IP	150 | 300 | 600	50 | 100 | 200	9	194	129	160	422	384	50,8		-	- 963-130H
HFD 1T-4IP	300 | 600 | 1500	100 | 200 | 500	9	194	129	160	422	384	50,8		-	- 963-130H
HFD 3T-3IP	600 | 1500 | 3000	200 | 500 | 1000	10	194	129	160	457	413	58		-	- 963-132H
HFD 6T-3IP	1500 | 3000 | 6000	500 | 1000 | 2000	15	194	129	160	518	467	68,3		-	- 963-132H
HFD 10T-3IP	3000 | 6000 | 12000	1000 | 2000 | 5000	22	194	129	160	584	521	82,5		-	- 963-133H
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.												
HFD 600K-1M	600	200	9	194	129	160	422	384	50,8		965-130H	963-130H
HFD 1T-4M	1500	500	9	194	129	160	422	384	50,8		965-130H	963-130H
HFD 3T-3M	3000	1000	10	194	129	160	457	413	58		965-132H	963-132H
HFD 6T-3M	6000	2000	15	194	129	160	518	467	68,3		965-132H	963-132H
HFD 10T-3M	12000	5000	20	194	129	160	584	521	82,5		965-133H	963-133H





1


2



3

Discover more details and matching accessories online!

Robust industrial crane scale with bright LED display for optimum reading in unfavourable ambient conditions

Features

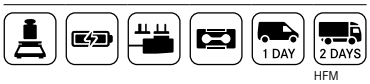
- 1 With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- Professional device for robust applications in production, quality control, logistics etc. Because of its stable construction and robust design, it is ideal for continuous use in industrial environment
- Thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations
- Adaptation of the readout to unstable environmental conditions at the push of a button (you can select between 3 levels)
- Hold function: For easy reading of the weighing result, the display can be „frozen“ by pressing the Hold key
- Tare: Resets the display to „0“ when there is a load on the scale. Now removed or added loads are directly displayed
- Hook with safety catch, revolving
- 2 Radio remote control standard. Range up to 20 m. All functions can be selected (excl. ON/ OFF). W×D×H 48×10×95 mm. Batteries included, 12 V, Typ 23A

Technical data

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

15

STANDARD



HFM 10T1

OPTION



Model	Weighing capacity [Max]	Readability [d]	Net weight	3 Dimensions							Price on request	Options
												Calibr. Certificate
KERN	kg	g	approx. kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm		DAkkS accr. KERN
HFM 1T0.1	1000	100	14	270	200	175	610	540	68	40		963-130H
HFM 3T0.5	3000	500	16	270	200	175	610	540	74	40		963-132H
HFM 5T0.5	5000	500	18	300	230	190	730	650	74	55		963-132H
HFM 10T1	10000	1000	34	300	230	190	840	750	92	60		963-133H

16

ACCESSORIES, SOFTWARE

In our large selection of accessories you will discover everything you need to complement your KERN devices in the best way and make your workflows even more efficient.

As well as high-quality printers, interface cables and numerous adapters, you will also find different software solutions and many other products which will guarantee stable performance.

Visit our webshop as well to see the complete range of accessories and get detailed information about each product.











Thermal Printer KERN YKC-01

Reliable thermal printer for standard applications

Technical data

- Thermal print
- Speed: 300 mm/s
- Max 58 characters per line
- Supported paper widths: 80 mm (roll)
- Operation via mains adapter 230 V/50 Hz standard EU, as standard
- Interfaces: RS-232
- Dimensions housing W×D×H 125×125×150 mm
- Interface cable not included with delivery

Printer without interface cable:
KERN YKC-01

Accessories

- Paper rolls (5 pcs.), KERN YKC-A10

STANDARD
RS 232 | 1 DAY



Thermal Printer KERN YKH-01

High-quality thermal printer – fast, robust, user-friendly

Robust, low-maintenance thermal printer for retail, the catering trade and for restaurant kitchens. Extremely compact and long-lasting. Thanks to the waterproof switch cover it is particularly suitable for use under tough, loud environmental conditions

Technical data

- Thermal print
- Speed: 2 line/s
- Max 64 characters per line
- Supported paper widths: 58 mm, 80 mm (roll)
- Operation via mains adapter 230 V/50 Hz standard EU, as standard
- Interfaces: RS-232
- Interface cable not included with delivery
- Dimensions housing W×D×H 140×199×146 mm
- Not suitable for KERN DAB, DLB, FKT, RFE ranges

Printer without interface cable:
KERN YKH-01

Accessories

- Paper rolls (5 pcs.), KERN YKH-A01

STANDARD
RS 232 | 1 DAY



Dot Matrix Printer KERN YKG-01

High-quality dot matrix printer

Flexible and rapid dot matrix printer for retail, the catering trade and for restaurant kitchens. To print the weights on normal paper, which is ideal for long-term archiving. This model has an interchangeable interface and you will be impressed by how easy it is to replace the paper and ribbon

Technical data

- Needle print
- Speed: 4,7 line/s
- Max. 42 characters per line
- Supported paper widths: 58 mm, 70 mm, 76 mm (roll)
- Operation via mains adapter 230 V/50 Hz standard EU, as standard
- Interfaces: RS-232, cash drawer connection, bidirectional parallel
- Interface cable not included with delivery
- Dimensions housing W×D×H 160×248×139 mm
- Not suitable for KERN DAB, DBS, DLB, FKT, RFE ranges

Printer without interface cable:
KERN YKG-01

Accessories

- Paper rolls (5 pcs.), KERN YKG-A01

STANDARD
RS 232 | 1 DAY

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.

NEW







Needle Printer
KERN YKT-01

High-quality printer with large LCD display and numerous functions

Technical data

- Printing process: 8 print magnets with dot matrix
- Speed: 1,7 line/s
- Character size (ASCII characters): W×H 1.7×2.6 mm
- Service life: 1 million lines
- Ribbon cartridge: EPSON ERC-22 or ERC-09B
- Operation via mains adapter 230 V/50 Hz (standard EU), as standard

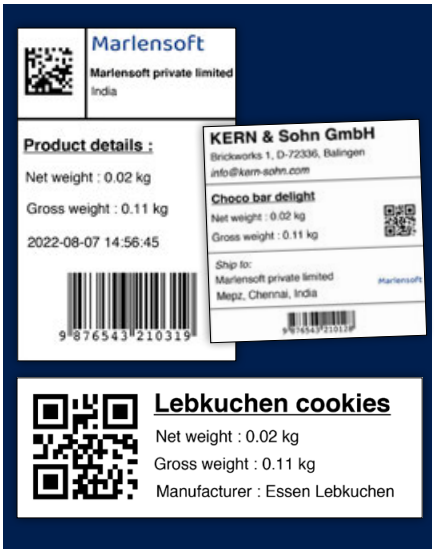
Printer without interface cable:
KERN YKT-01

Accessories

- Colour ribbon for printer (1 pc.), KERN YKT-A03
- Paper roll (1 roll), KERN 911-013-002
- Paper roll (10 rolls), KERN 911-013-010

Easy Touch

Tip:
EasyTouch Individual Print
The print product (e.g. labels) can be individually designed. The size of the print area as well as the placement of the print elements can be customized. The barcode function enables the printing of each element as a barcode or QR code.
For further details, see *EasyTouch*



Example printouts with ET Individual Print

STANDARD

RS 232 · GLP · 1 DAY

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.

Interface Cable for RS-232

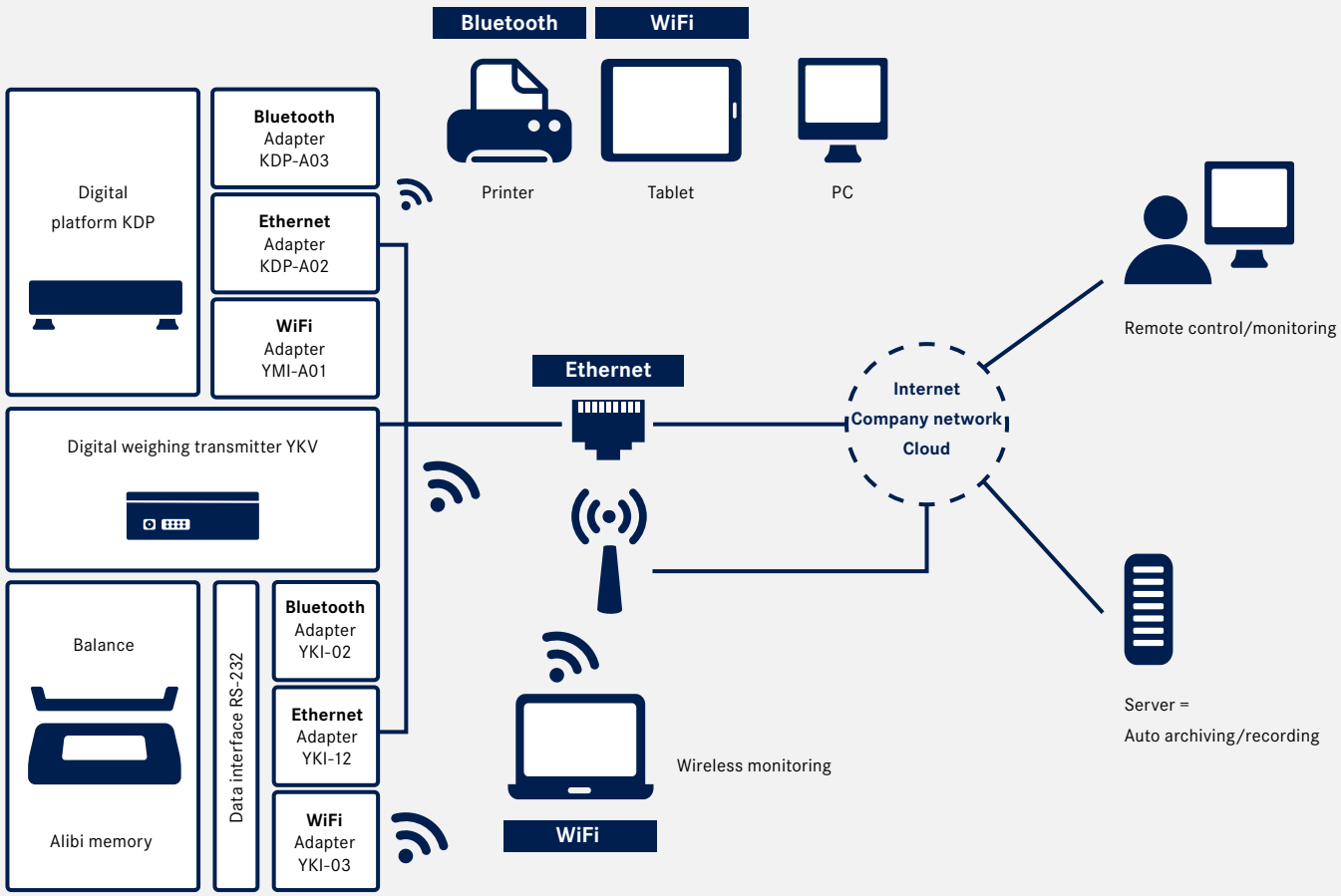
For direct connection to a printer or PC, cable length approx. 1.5 m.
The interface parameters can be set using the balance keypad.

Tip:
The interface cable is **free of charge** if you purchase balance, printer or Ethernet-/WiFi-/Bluetooth adapter together.

Printer, ... ▶ / Balances ▼		PC, YKI-02*	911-013*, YKN-01*	YKG-01, YKH-01	YKC-01	YKT-01	Price cable on request
		KERN	KERN	KERN	KERN	KERN	
440, ALS/ALJ, DE-D, EMB-V, FKA, PCD, PLS/PLJ, KDP	CDS, CKE, DS, FKB-A (until year of prod. 2022)	572-926					
EOC, IOC, BID, KIB-T, KIB-TM, UID		EOC-A12					
KGP		572-926	–				
KFB-TM, KFN-TM (until year of construction 2019)	PFB, SFB	CFS-A01					
CPB, EWJ, KFS-TM, PFB		CFS-A01					
CFS, CCS, KFS-TM, IFS (from year of production 2015)		–	CFS-A01	–	CFS-A01		
ABT-NM, PBS/PBJ		770-926 (& ABT ▸ ACS-A01)					
DBS, DLB		572-926					
DAB		MLB-A05					
ABP		MLB-A05					
ADB/ADJ, ACS/ACJ, PNS/PNJ, AXS/AXE		MLB-A05					
EG/EW, PES/PEJ		474-926 (PES/PEJ ▸ MLB-A05)					
PES/PEJ							
CCA		CCA-A01					
RPB (not compatible with YKN-01)		–	CFS-A01				
FES/FEJ, PWS		MLB-A05 (PWS-A02)					
ADS/ADT, PDS/PDT		572-926					

! * ONLY WHILE STOCKS LAST

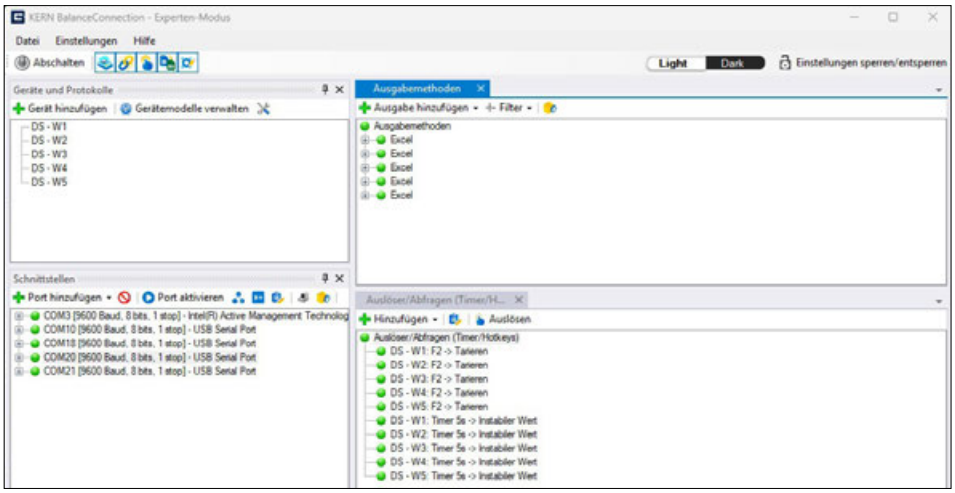
With products from KERN you are ready to face the challenges of Industry 4.0



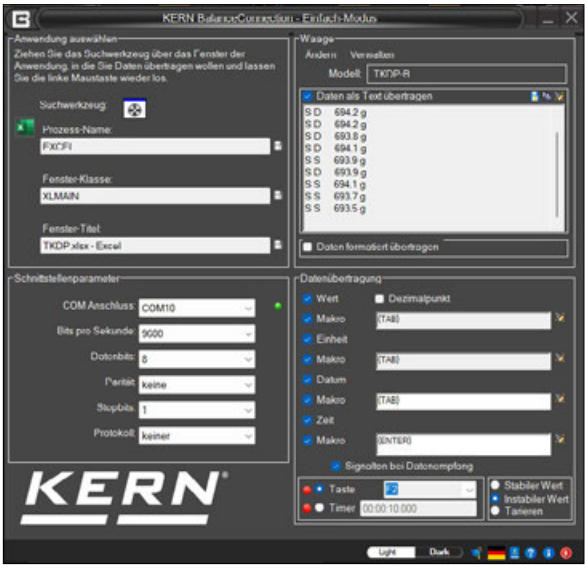
We will help to combine industrial production with the latest information and communication technology, with the aim of improving quality, reducing costs and using time and resources more efficiently so that you are able to react to future requirements in a more flexible manner. You will benefit from our uniform data protocol combined with our BalanceConnection 4.0 data software, for details please see page *167/168*.

KERN Software BalanceConnection SCD-4.0

Flexible recording or transfer of measurements, particularly to Microsoft® Excel



Full overview of devices, outputs, queries, interfaces, etc. directly in the output window



Programme start and quick configuration of the RS-232/USB interface

Discover more details and matching accessories online!

Do you have any questions?
The team from our Industry 4.0 centre of expertise will be happy to help:
e-mail: etsales@kern-sohn.com

Tip: Or download a free demo version of the BalanceConnection software: http://balance-connection.kern-sohn.com/demo

Features

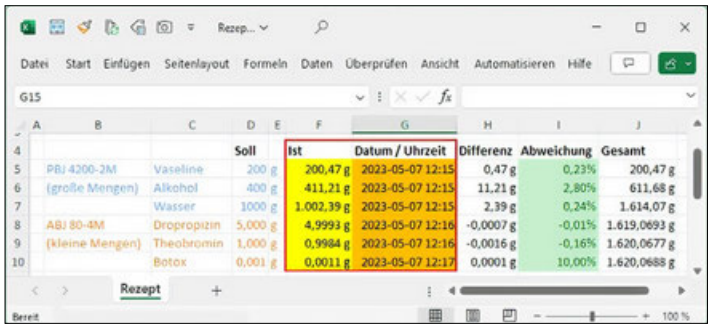
- For operating systems Windows 10, 11, -.NET Framwork 4.8.1 required
- Supports balances measuring devices with RS-232, RS-485, Bluetooth, LAN or WiFi network (TCP/UDP/IP)
- Highly flexible formatting of the output (any order, formatting and rounding), particularly recording of date and time for every value transferred, if required
- Any number of devices/interfaces can be connected, as well as simultaneous and synchronised recording of several balances
- Key-activated or time-controlled interrogation of measurements or trigger of device functions, also for continuous recording
- The interface protocols for KERN balances are already predefined (standard configuration)
- Compatible interface cable included when you order a KERN balance at the same time
- Many different transfer and recording options:
  - Microsoft® Excel/Access/Word in the foreground or background
  - Other Windows applications (through key simulation), e.g. shipping software or ERP system (SAP, Sage, etc.)
  - File recording (e.g. as text or CSV file)
  - Print out on text or label printer
  - Screen output such as large display, line chart (drying curve for moisture analyser), histogram, etc.

Benefits

- Typing errors during e.g. manual transfer are avoided
- Automatic recording, e.g. for long-term tests
- Supports GLP-compliant processes
- Can be used across different branches and applications
- Also available immediately as a download license
- Scope of delivery:
  Download link for 1 license,
  KERN SCD-4.0-DL

KERN Software BalanceConnection SCD-4.0-PRO

Professional and highly flexible recording or transmission of measured values, in particular also to Microsoft® Excel or Access

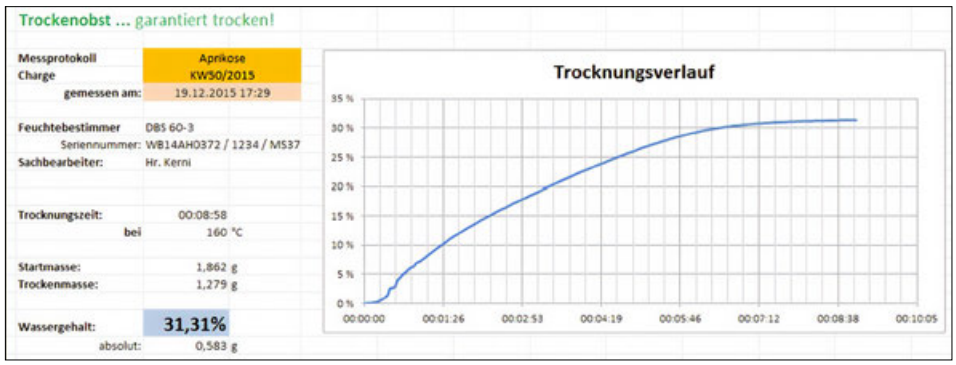


Easy transfer and editing of measuring results e.g. in Microsoft® Excel

Discover more details and matching accessories online!

Do you have any questions?
The team from our Industry 4.0 centre of expertise will be happy to help:
e-mail: etsales@kern-sohn.com

Tip: Or download a free demo version of the BalanceConnection software: http://balanceconnection.kern-sohn.com/demo



Measurement protocol with moisture analysis progression diagram

Additional features of the PRO version

- In addition to the functions of the standard version (see previous page), the PRO version offers the following enhanced features:
- ODBC/SQL databases such as SQL Server or MySQL
- Transfer to HTTP Webservices/Web forms
- Histogram
- Enables the connection of medical balances to practice EDP systems using the device data transfer protocol (GDT) and also the HL7 protocol
- Implementation of programs/scrips using freely-definable command lines
- Command sequences
- Defining the conditions for specific events and the reaction to these events
- Filter for stability recognition (configurable value storage)
- Central configuration repository, e.g. on the network
- On-screen displays with configurable user interface for flexible balance operation
- Diagram functions and filters: Range markers, extended filters such as slope and area calculation, new trend lines and optional display of the last value per data series
- The data from the diagram, histogram and table can be output in Excel, Word, PDF, CSV and PNG format. The large display is also available as a PNG, Word or PDF file – for a true representation that exactly matches the original
- Windows service for controlling and managing device connections and background processes including time-controlled file recording, printer methods and device data transfer integration. Centralised and user-specific configuration options
- Also available as a cost-optimised package with 5 licences
- Scope of delivery: Download link for 1 License, KERN SCD-4.0-PRO-DL
- Scope of delivery: Download link for 5 licences, KERN SCD-4.0-PRO-DL-AS05

Benefits

- Typing errors during e.g. manual transfer are avoided
- Ideal software where weighing data which has been collected needs to be transferred to a Windows PC
- Particularly suitable for professional integration of weighing systems into existing networks where there is a high demand for automated data transfer and further processing, for integration of databases
- Automatic recording, e.g. for long-term tests
- Supports GLP-compliant processes
- Can be used across different branches and applications
- Any number of balances can be used on one PC/workstation per licence
- Also available immediately as a download license

NEW



RS-232/Ethernet converter
KERN YKI-10 · YKI-11

Technical data

- Converter for connecting scales, force measuring instruments, etc. with an RS-232 data interface to an IP-based Ethernet network
- Allows direct integration of measuring devices into most company networks, with automatic configuration using DHCP or statistical IP allocation. The current measurement data can be accessed from the entire network at any time
- The converter supports a wide range of configuration options via the web interface
- Compatible with **KERN BalanceConnection software**
- Suitable for wall mounting or free-standing

Scope of delivery:
KERN YKI-10: RS-232/Ethernet converter with 1x RS-232 port, mains adapter (EU), KERN YKI-10

KERN YKI-11: RS-232/Ethernet converter with 2x RS-232 ports, mains adapter (EU). The two RS-232 ports allow two balances or measuring devices to be connected. They can be managed in parallel. KERN YKI-11

STANDARD





NEW



RS-232/WiFi converter
KERN YKI-12

Technical data

- Converter for wireless connection of scales, force measuring instruments, etc. with RS-232 interface to WiFi-enabled devices such as tablets, laptops, smartphones or networks
- In this way, where there is a physical separation or a large distance between the devices, the weighing data can be easily transmitted wirelessly from a scale to one or more WiFi devices or to a network (corresponding software required on the WiFi device, not included with the delivery)
- Allows direct integration of measuring devices into most company networks, with automatic configuration using DHCP or statistical IP allocation. The current measurement data can be accessed from the entire network at any time
- The converter supports a wide range of configuration options via the web interface
- Compatible with **KERN BalanceConnection software**

Scope of delivery: RS-232/WIFI converter, mains adapter (EU), KERN YKI-12

STANDARD





Tip: If you order a KERN balance at the same time, then the interface cable is **free of charge** (please specify balance model).

Note: To connect to your network, you will need information from your network admin istrator. We recommend discussing connecting your device into your network with the ad min istrator before you place your order.



Large Display
KERN YKD-A02

Technical data

With superior display size, digit height 3" (76 mm). Luminescent, red LED display for easy reading of weight, even from a distance or under poor lighting conditions. 6 segments, mains connection as standard (230 V, EU/GB), connection using RS-232 data interface, dimensions W×D×H 541×55×180 mm.

Suitable for serie UFA

KERN YKD-A02



Signal Lamp
KERN CFS-A03

Technical data

Signal lamp for visual support of weighing with tolerance range. Three-colour LED, red, green, yellow. Power supply via balance using RS-232. Total dimensions W×D×H 100×180×300 mm

Suitable for series BID, CDS, CKE, CPB-N, DS, FCB, FKB, IFS, IFC, IOC, IXC, KFB-TM, KFN-TM, KIB-TM, NFC, SFB, SXC, UFA, UFC

KERN CFS-A03



Power Supply Adapter Set
KERN YKA-02

Technical data

From standard EU to GB/US/AUS/CH etc. Four pieces. Ideal for devices with Class II protection (not earthed). Ideal for Euro moulded plug,

KERN YKA-02



2nd RS-232 Data Interface
KERN CFS-A04

Technical data

Separate Y cable, e.g. for simultaneous connection of a a printer and a signal lamp.

Suitable for series CFS, CPB-N, KFB-TM, UFA, SFB,

KERN CFS-A04



RS-232/USB Adapter
KERN AFH 122

Technical data

To connect peripheral devices with USB connection, fits on all balances and measuring instruments with RS-232 port.

Please order the appropriate RS-232 interface cable for your balance at the same time, see table on page 166

Scope of delivery: Converter cable, CD with driver,

KERN AFH 12



Stand (Tripodal)
KERN YKP-02

Technical data

stable and robust, to elevate display device, stainless steel, height-adjustable, large three-legged adjustable foot, height of stand approx. 750–1000 mm, Factory Option.

Suitable for series BFB, BXS, BFS, BFA, IFS, IFB, KFE-TM, KXG-TM, KXS-TM, KEN-TM, NFC, SFE, UFA, UFB,

KERN YKP-02



Protective Dust Cover
KERN ABS-A08

Technical data

For protection from dust and light (Fig. similar).

Suitable for all KERN analytical balances and precision balances with glass draught shield,

KERN ABS-A08



Tare Pan
KERN RFS-A02

Technical data

Made of stainless steel, which makes cleaning easy and hygienic. Ideal for weighing loose screws, small parts as well as fruit, vegetables, cheese, etc.
- W×D×H 400x300x45 mm
- Net weight approx. 554 g

KERN RFS-A02



Tare Pan with Pan Beam
KERN CH-A01N

Technical data

Made of stainless steel. Ideal for weighing loose small parts as well as fruit, vegetables etc. Max. load 30 kg. Removable tare pan which makes cleaning easy and hygienic.

Suitable for models KERN CH 15K20, HCB 20K10, HDB-N, HDB-XL
- Dimensions: tare pan, ø/H
  160×40 mm (dim. outside),
  240×40 mm (dim. inside)
- Pan beam: W×D×H
  290×240×300 mm
  290×240×340 mm (incl. tare pan)
- Total net weight approx. 500 g

KERN CH-A01N



Universal Density Set
KERN YDB-03

Technical data

Universal density set for precise and convenient density determination of liquids and solids ≤/≥ 1. Suitable for all current KERN analytical balances. Scope of delivery: Beaker (ø×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

Optional:
Density determination of the volume plummet, calibration certificate with accreditation symbol with all data relating to the density and volume,
KERN 962-335V



ESD Earthing Kit
KERN YGR-01

Technical data

ESD drain to protect against electrostatic discharge e.g. for electrostatically-charged weighing objects or people who work with the scale, KERN YGR-01



Ioniser to neutralise Electrostatic Charge KERN YBI-01A

Technical data

Goods to be weighed which are non-conductive, such as plastic, china, glass, etc often carry electrostatic charge. The electromagnetic field which then occurs between the goods to be weighed and the balance can cause the weighing result to be distorted by up to a gramme. Therefore, when weighing in milligrammes or even smaller increments, we recommend neutralising the electrostatic charge with the KERN AC-Korona discharge ioniser. With feet supplied with the ioniser, it can be positioned conveniently next to the balance or you can manually direct it from all sides onto a particular item to be weighed.

- Discharge of ozone 0,05 ppm/h
- Total dimensions W×D×H
  115×100×60 mm (Adjustable foot retracted),
  115×110×80 mm (Adjustable foot folded out)
- Net weight approx. 0,31 kg
- Mains connection 100–240 V, 50/60 Hz,
  AC power supply, DC 12 V, 500 mA, output,

KERN YBI-01A







Antivibration Table KERN YPS-03

Technical data

The KERN YPS-03 antivibration table has been constructed to absorb vibrations and oscillations, which would otherwise distort the weighing result.

The YPS-03 antivibration table consists of:

- a heavy, polished granite slab (24 kg) and is positioned on absorbing rubber components and is used as a surface on which to stand the analytical balance
- a work table, the work surface of which surrounds the slab and offers many storage options. The sturdy powder-coated steel frame has four height-adjustable feet, which can be used to accurately level the antivibration table if the floor is at all uneven
- You can work in an ergonomic way at the antivibration table. The inlet on the front of the table offers enough space for you to sit down and operate the scale without touching the antivibration table
- All surfaces are hygienic and easy to clean
- Suitable for all KERN analytical balances with total dimensions ≤ W×D 300×400 mm
- Total dimensions W×D×H
  785×600×800 mm (height adjustable)
- Dimensions granite slab, W×D×H
  300×400×80 mm
- Net weight approx. 46 kg

Ready for shipping in 2 working days. Dispatch complete on pallet, simple self-assembly. Please ask for dimensions, gross weight, shipping costs,

KERN YPS-03

STANDARD
2 DAYS



Antivibration Granite Plates KERN YPS-04, YPS-05, YPS-06

Technical data

- The KERN YPS-04, -05, -06 antivibration granite plates are designed to dampen shocks and vibrations that would otherwise distort the weighing results of high precision Laboratory Scales and analytical balances. Also ideal for vibration-free microscope set-up
- The antivibration granite plate is made of polished granite, which is supported on absorbent damping elements
- The antivibration granite plate can be used ergonomically while standing or sitting comfortably
- Compact size, practical for small spaces
- All surfaces are hygienic and easy to clean
- Suitable for all KERN analytical balances, precision balances and microscopes with the corresponding dimensions
- Overall dimensions, W×D×H
  YPS-04: 400×450×60 mm
  YPS-05: 565x450x60 mm
  YPS-06: individual dimensions, according to your requirements
- Net weight approx.
  YPS-04: 30 kg
  YPS-05: 35 kg
  YPS-06: on request

Ready for shipping in 2 working days.
Dispatch complete on pallet.
Please ask for dimensions, gross weight, shipping costs,

KERN YPS-04
KERN YPS-05
KERN YPS-06, on request



STANDARD

2 DAYS



1



1



1

Roller Conveyor
KERN YRO-01/ YRO-02/ YRO-03

Through the smooth-running KERN roller conveyor attachments, KERN YRO, you can convert your platform scale into a robust measuring system for rapid and flexible weight determination in conveyor applications.

Especially suitable for use in production and dispatch lines, where time means money. The goods or packages can either be weighed as they pass over the balance or, at fixed stations, heavy goods can easily be pushed onto the scale thanks to the roller conveyor and moved onto the connected roller conveyor.

- 1 Simply connect the roller conveyor attachment to a platform (e.g. KERN IFS, IXC, SXC, KBP, KFP) – done!
- Robust aluminium profile frame. The modular design means that you can easily disassemble it for cleaning or to replace individual components
- Smooth-running, hot-dip galvanised steel rollers with ball bearings
- Conductive rollers
- Suitable for use in dry environments
- Roller distance approx. 30 mm
- Direction of movement is lengthways
- Scope of delivery: 1 roller conveyor attachment (without scale)
- We are happy to adapt the roller conveyor to your scale, adjust the preload or switch-on tolerance, etc. Please ask for your individual offer, your personal KERN contact person will be happy to help you

Model	Total dimensions W×D×H	Suitable for platforms with weighing plate sizes W×D	Total net weight approx.	**Price on request**
KERN	mm	mm	kg	
YRO-01	405×305×130	400×300	6	
YRO-02	505×405×130	500×400	9	
YRO-03	655×505×130	650×500	12	



16

17



TEST WEIGHTS

Weights yesterday and today
For centuries now, weight pieces have been used in scales for weighing procedures. This original purpose has now almost disappeared. Today, weights are used almost exclusively for adjusting and testing = calibration of electronic balances. They are now named “test weights” as this is their contemporary purpose.

Adjustment or calibration?
▸ ***Adjusting*** a balance means that you are intervening in the weighing system, to make sure that the display is set to show the correct nominal value. With ▸ ***calibration*** on the other hand, there is no intervention, you are testing whether the display is correct and documenting any deviation.

Testing, the right way!
The internationally valid norm OIML R111:2004 classifies test weights hierarchically in accuracy classes, where E1 is the most accurate and M3 is the least accurate weight class. With KERN you get the whole test weight range in all OIML accuracy classes E1, E2, F1, F2, M1, M2, M3.

As the test weight only becomes an ▸ ***ISO 9000ff***-compliant test instrument when its accuracy has been proven, we offer the appropriate ▸ ***Calibration certificate with accreditation symbol*** (in connection with a box) for all KERN test weights. For further details see *Accredited Calibration Service.*

KERN offers you the appropriate test weight package for your balance, consisting of the test weight, box and Calibration certificate with accreditation symbol as proof of its accuracy. The best prerequisite for a correct adjustment or checking of your scales.

▸ ***See the Glossary***

Classes of accuracy of test weights E, F, M and their general relation to the types of balances.

The appropriate OIML tolerance class for the test weight is selected based on the scale’s resolution. The key factor for this is the scale’s increment count:

$$\text{Increment count [n]} = \frac{\text{Maximum capacity [Max]}}{\text{Division value [d]}}$$

E1	Test weights for customers who require a high degree of accuracy for the most demanding applications. For high-resolution balances with d > 1,000,000 Use recommended with Calibration certificate with accreditation symbol only.
E2	Most accurate test weights for high resolution analytical balances of verification class I ≥ 100,000 e
F1	Test weights for analytical balances/precision balances for verification class I/II ≤ 100,000 e
F2	Test weights for precision balances of verification class II ≤ 30,000 e
M1	Test weights for industrial and commercial scales of verification class III ≤ 10,000 e

The appropriate test weight for your new KERN balance can also be found directly in the accessories of the balance in our webshop.

KERN Delivery times & Shipping type	**Total weight ≤ 30 kg (gross weight, incl. packaging)**	**Total weight > 30 kg (gross weight, incl. packaging)**
Standard Service Class E2 – M3	4 DAYS	4 DAYS
Standard Service Class E1, 1 mg – 500 mg and recalibration 1 g – 10 kg with a known volume	10 DAYS	10 DAYS
Class E1, ≥ 1 g, incl. volume determination (new weights)	15 DAYS	15 DAYS
Special weights, Newton weights, heavy duty weights, weight carriers, containers for individual weight sets etc.	on request	

Just lean back – we have just the right test weight for your measuring device

KERN offers you a large range of OIML test weights, which you can use at any time to quickly and reliably check your measuring instrument. From milligram weights to tonne weights, from the classic OIML design to special weights which are specifically manufactured to your specifications, we can offer you just the right test weight, and naturally the weights have the relevant calibration certificate with accreditation symbol or factory calibration certificate.

On the following pages you will see a selection of standard test weights for OIML error limit classes E1, E2, F1, F2, M1, M2, M3. We will be happy to manufacture special (large) weights, weight containers, Newton weights or weights with special weight values for you on request. Our test weights product specialist will be happy to give you expert, comprehensive advice.

Note: In our webshop you can conveniently select test weights for your scale that have been calculated and matched to your safety requirements and intended use – with or without calibration. We will be happy to determine the minimum sample quantity according to USP Chapter <41> and recommend a KERN Safety Set especially designed for your scale.





PREMIUM^{+} TEST WEIGHTS

Note: Our highly-accurate OIML test weights are also available as **PREMIUM**$^{+}$ **test weights** for that extra level of safety. Thanks to the most modern manufacturing technology, these test weights can also be adjusted within the specified error limit classes (= tolerances).

I.e. this means that these **PREMIUM**$^{+}$ **test weights** have a significantly longer service life, thanks this guaranteed positive tolerance. This is of particular benefit with intensive use of the test weights.

For all the details on this **PREMIUM**$^{+}$ **service** please see **www.kern-lab.com/premium+** or look at the weight you want in our online shop at www.kern-sohn.com

Marking – never lose track again!

With the large variety of test equipment used then it is essential that they are identified accurately. We can help you with this and mark your test weights according to your ideas by etching, with impact numbers or laser engraved. Whether it's letters, numbers, your logo, barcodes or something else – it's your choice.
Our product specialist "Test weights" will gladly help you with any questions about this service, prices, etc.



SAFELY LOOKED AFTER

KERN weight boxes made of polyoxymethylene (“POM”) – for the most demanding requirements in highly-sensitive environments such as laboratories and clean rooms

You can rely on the highest quality and safety when storing your KERN test weights for clean room areas. KERN weight boxes made of polyoxymethylene (“POM”) are secure and easy to clean and are essential aids in clean rooms, laboratories or production environments because they protect your test weights perfectly and this enables consistently accurate and reliable measurements.

The robust construction means that there are no edges or padding which could collect dirt. This means that the boxes are particularly easy to clean hygienically.

For test weights in weight classes from E1 to M1, KERN clean room boxes offer further advantages in addition to protection, in order to meet the highest requirements in terms of cleanliness and absence of contamination. They do not require maintenance and are resistant to a range of cleaning products, acids, alkalis, disinfectants and solvents. They can also be cleaned in thermo disinfectors without any problems. In addition, repeated disinfection and cleaning ensures that they meet the highest standards of the clean room environment.

Please note: Our clean room boxes are also available in an antistatic version on request – for additional safety in hazardous areas.



All the advantages of KERN clean room boxes at a glance:

→ extremely stable and robust

→ can be fully disinfected

→ easy to clean

→ without padding or edges which could collect dirt

→ maintenance-free and long-lasting

→ for maximum safety and measurement results



Convenient screw thread without edges which could trap dirt – KERN clean room boxes in detail



→ Do you have any special requirements?

High-quality weight boxes e.g. on request we can also manufacture boxes for rectangular weights or complete weight sets to suit your individual requirements.

We will be happy to advise you.



Product Specialist
Test Weights
Hanna Blackschleger
Tel. +49 7433 9933-305
hanna.blackschleger@kern-sohn.com

Our KERN weight cases at a glance:



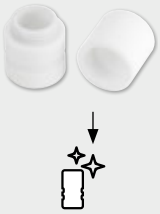
for individual weights **Plastic box**



for individual weights **Aluminium protected box**



for individual weights **Wooden box, lined / unlined**



for individual weights **Polyoxymethylene boxes POM, unlined**



for weight sets **Plastic case**



for weight sets **Aluminium protected case**



for weight sets **Wooden case, lined / unlined**

It's your choice!

To protect your test weights we can offer you an appropriate weight case. Choose the right box for your needs. You have the choice between plastic, aluminium protected, wood or polyoxymethylene. The available weight cases are shown as a symbol in the test weight tables on the following pages. This way you have all the materials, versions, sizes and prices at a glance, listed in a concise way.



On request only:
for weight sets
Clean room boxes POM (polyoxymethylene), unlined

It's so easy to order your suitable test weight

1 → **2** → **3** → **4**

According to your safety requirements or the specifications of your QM system, you select the test weight with the appropriate weight value and the required tolerance.

We offer many test weights in different designs, giving you complete freedom to decide which test weights you want to use for your application. It goes without saying that all our test weights comply with the OIML R111:2004 directive.

To protect your high-quality test equipment, we offer you cases in various designs.

A calibration certificate with accreditation symbol – the auditor's favourite! With this certificate you provide the standard-compliant proof of all important values of your test equipment and are on the safe side when operating and testing your measuring equipment.

1		2		2		3		3		3		4	
Weight	Tol +/- mg	Individual weights, compact shape		Individual weights, knob shape		Plastic box		Aluminium protected box		Wooden box		DAkkS-accredited certificate	
		KERN	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€
1 g	0,03	316-01	41,-	317-01	51,-	317-020-400	5,-	317-010-600	14,-	317-010-100	32,-	962-331	36,-
2 g	0,04	316-02	42,-	317-02	53,-	317-020-400	5,-	317-020-600	14,-	317-020-100	30,-	962-332	36,-
5 g	0,05	316-03	43,-	317-03	55,-	317-030-400	5,-	317-030-600	14,-	317-030-100	32,-	962-333	36,-
10 g	0,06	316-04	47,-	317-04	57,-	317-040-400	5,-	317-040-600					36,-
20 g	0,08	316-05	48,-	317-05	64,-	317-050-400	5						
		316-06	53,-	317-06	71,-								

1	2	3	3	3	4	
Weight	Knob shape in plastic case		Knob shape in aluminium protected case		Knob shape in wooden case		DAkkS-accredited certificate	
	KERN	€	KERN	€	KERN	€	KERN	€
1 mg - 500 mg	328-22	165,-	328-226	230,-	-	-	962-450	128,-
1 mg - 50 g	333-024	365,-	333-026	410,-	333-02	370,-	962-401	215,-
1 mg - 100 g	333-034	400,-	333-036	450,-	333-03	405,-	962-402	225,-
1 mg - 200 g	333-044	480,-	333-046	520,-	333-04	490,-	962-403	250,-
1 mg - 500 g	333-054	540,-	333-056	600,-	333-05	560,-	962-404	260,-
1 mg - 1 kg	333-064	710,-	333-066	750,-				280,-
1 mg - 2 kg	333-074	950,-	333-076					

A balance can never be more accurate than the test weight that is used to adjust it, it all depends on its tolerance. **The accuracy of the test weight should correspond to the readout [d] of the balance, or rather be more precise.**

Nominal test weight value is shown in adjust mode “CAL” in the balance display. Given a choice, the heaviest weight is the most suitable for accurate measurement.

Once accuracy and nominal test weight value are specified, the suitable test weight is selected according to the tolerances “Tol” of the individual accuracy classes E2 – M3, see column “Tol ± mg” at the respective weight.

Example:
Balance with weighing range [Max] 2000 g = 2 kg and readout [d] = 0,01 g = 10 mg

- The accuracy of the required test weight is determined by readout [d]: max. tolerance ± 10 mg.
- Displayed weight size on “CAL” mode: 1000 g or 2000 g. The required test weight has a 2 kg weight size.
- Suitable test weights with ± 10 mg tolerance and 2 kg weight size, can be found in accuracy class F1. KERN-No 326-12 or KERN-No 327-12.

Exception: analytical balances (readout [d] ≤ 0,1 mg):
E1 test weights are recommended. Depending on the safety requirements, E2 test weights with a calibration certificate with accreditation symbol will also be sufficient.

From finely turned to polished stainless steel – the right test weight for every situation

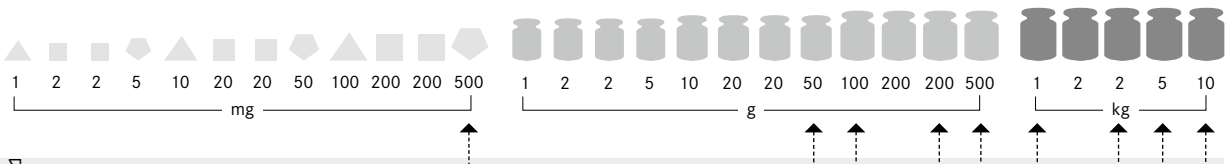






Test weight → / Features ↓	Knob shape with lifting knob, polished stainless steel	Compact shape with carrying grip, polished stainless steel	Knob shape with lifting knob, polished stainless steel	ECO shape, polished stainless steel	Knob shape with lifting knob, finely turned stainless steel
Conforms to OIML:R111	yes	yes	yes	yes	yes
Available classes	E1, E2	E2	F1	F1	F2, M1
Upper surface	polished	polished	polished	polished	finely turned
Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Adjusting cavity	no	no	yes	yes, from 50 g, readjustment can only be carried out by KERN	yes, from 20 g
Marking (Milligram weights, generally none)	none	none	Nominal value, etched	Nominal value, etched	F2: Class + nominal value, etched; M1: Class + nominal value, adopted
Checking equipment for verification purposes	approved (E2)	approved	approved	approved	approved (M1)
Ideal as checking equipment in QM systems (e.g. ISO 9000 ff)	yes	yes	yes	yes	yes
Benefits	• High-quality test weight for analytical and precision balances • Highly-refined surface • Ideal shape of the top for good grip	• Affordable test weight for analytical and precision balances • Highly refined surface	• Ideal, high-quality test weight for precision balances • No visible adjustment chamber • High long-term stability • Ideal shape of the top for good grip	• Affordable test weight for analytical and precision balances • Highly refined surface • Optimum shape of the top for good grip	• Ideal test weight for commercial and industrial scales • Ideal shape of the top for good grip

Composition table, valid for all KERN test weight sets from 1 mg



Test weight set	
1 mg–500 mg	∑ = 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

The key points from the OIML norm R111:2004
OIML (Organisation Internationale de Métrologie Légale) has established the exact metrological requirements for weights in verified applications in approx. 100 states all over the world.

The OIML guideline R111 (2004 Edition) for weights relates to sizes 1 mg – 5000 kg. Statements are made on the accuracy, materials, geometric shape, marking and storage of the weights.

Error limits for weights of classes E1 to M3
The error limit classes are in fixed hierarchical levels in the proportion of 1:3, where E1 is the most accurate and M3 is the least accurate weight class. When testing weights with other weights, the correct test class is the next highest class.

Error limit classes (= tolerances)
The values given in the table below (tolerances ± ... mg) are the respective permitted fabrication tolerances.

They are to be equal to the
▸ ***measuring uncertainty*** of the weight, if no
▸ ***Calibration certificate with accreditation symbol*** 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/m^3, air density is 1.2 kg/m^3 and measuring temperature is 20 °C.

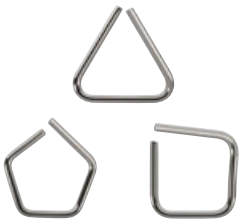
KERN test weights:
Unless otherwise specified, they conform to OIML R111:2004 in every detail.

▸ ***See the Glossary***

Nominal value **OIML R111:2004 Maximum permissible errors for weights = permissible tolerances "Tol ± 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

TEST WEIGHTS AND BOXES CLASS E1



Milligram weights, wire shape



Individual weights, knob shape



Wooden box, for milligram weights



Plastic box, lined, for individual weights ≤ 50 g



Plastic box, lined, for individual weights ≥ 100 g



Wooden box, lined, for individual weights ≤ 500 g



Wooden box, lined, for individual weights ≥ 1 kg



Milligram weight set in plastic case (308-42)



Milligram weight set in aluminium protected case, lined (308-426)



Plastic case, lined, for weight sets, compact shape/knob shape



Aluminium protected case, lined, for weight sets, knob shape



Wooden case, lined, for weight sets, knob shape

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

Class E1 · Milligram weights, wire shape

Test weight material: stainless steel

Weight	Tol +/- mg	Milligram weight, wire shape	Plastic box	Aluminium protected box	Wooden box	DAkkS-accredited certificate
		KERN	KERN	KERN	KERN	KERN
1 mg	0,003	308-31	347-009-400	317-009-600	338-090-200	962-251
2 mg	0,003	308-32	347-009-400	317-009-600	338-090-200	962-252
5 mg	0,003	308-33	347-009-400	317-009-600	338-090-200	962-253
10 mg	0,003	308-34	347-009-400	317-009-600	338-090-200	962-254
20 mg	0,003	308-35	347-009-400	317-009-600	338-090-200	962-255
50 mg	0,004	308-36	347-009-400	317-009-600	338-090-200	962-256
100 mg	0,005	308-37	347-009-400	317-009-600	338-090-200	962-257
200 mg	0,006	308-38	347-009-400	317-009-600	338-090-200	962-258
500 mg	0,008	308-39	347-009-400	317-009-600	338-090-200	962-259

Class E1 · Individual weights, knob shape

Test weight material: stainless steel polished

Weight	Tol +/- mg	Individual weight, knob shape	Plastic box	Aluminium protected box	Wooden box	DAkkS-accredited certificate Initial calibration*	DAkkS-accredited certificate Recalibration
		KERN	KERN	KERN	KERN	KERN	KERN
1 g	0,010	307-01	317-020-400	317-010-600	317-010-100	963-231	962-231 R
2 g	0,012	307-02	317-020-400	317-020-600	317-020-100	963-232	962-232 R
5 g	0,016	307-03	317-030-400	317-030-600	317-030-100	963-233	962-233 R
10 g	0,020	307-04	317-040-400	317-040-600	317-040-100	963-234	962-234 R
20 g	0,025	307-05	317-050-400	317-050-600	317-050-100	963-235	962-235 R
50 g	0,030	307-06	317-060-400	317-060-600	317-060-100	963-236	962-236 R
100 g	0,050	307-07	317-070-400	317-070-600	317-070-100	963-237	962-237 R
200 g	0,100	307-08	317-080-400	317-080-600	317-080-100	963-238	962-238 R
500 g	0,250	307-09	317-090-400	317-090-600	317-090-100	963-239	962-239 R
1 kg	0,500	307-11	317-110-400	317-110-600	317-110-100	963-241	962-241 R
2 kg	1,000	307-12	317-120-400	317-120-600	317-120-100	963-242	962-242 R
5 kg	2,500	307-13	317-130-400	317-130-600	317-130-100	963-243	962-243 R
10 kg	5,000	307-14	317-140-400	317-140-600	317-140-100	963-244	962-244 R
20 kg	10,000	307-15	-	- 317-150-600	317-150-100	963-245	962-245 R
50 kg	25,000	307-16	-	- 317-160-600	317-160-100	963-246	962-246 R

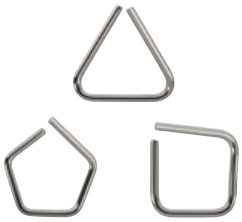
*** For E1 weights > 1g at the point of DAkkS-accredited initial calibration, a volume determination will be carried out in accordance with OIML:R111. When DAkkS-accredited recalibration, this is not required.**

Class E1 · Weight sets, knob shape

Test weight material: stainless steel polished

Weight set	Knob shape in plastic case	Knob shape in aluminium protected case	Knob shape in wooden case	DAkkS-accredited certificate Initial calibration*	DAkkS-accredited certificate Recalibration
	KERN	KERN	KERN	KERN	KERN
1 mg – 500 mg	308-42	308-426		962-250	962-250 R
1 mg – 50 g	303-024	303-026	303-02	963-201	962-201 R
1 mg – 100 g	303-034	303-036	303-03	963-202	962-202 R
1 mg – 200 g	303-044	303-046	303-04	963-203	962-203 R
1 mg – 500 g	303-054	303-056	303-05	963-204	962-204 R
1 mg – 1 kg	303-064	303-066	303-06	963-205	962-205 R
1 mg – 2 kg	303-074	303-076	303-07	963-206	962-206 R
1 mg – 5 kg	303-084	303-086	303-08	963-207	962-207 R
1 mg – 10 kg	-	- 303-096	303-09	963-208	962-208 R
1 g – 50 g	304-024	304-026	304-02	963-215	962-215 R
1 g – 100 g	304-034	304-036	304-03	963-216	962-216 R
1 g – 200 g	304-044	304-046	304-04	963-217	962-217 R
1 g – 500 g	304-054	304-056	304-05	963-218	962-218 R
1 g – 1 kg	304-064	304-066	304-06	963-219	962-219 R
1 g – 2 kg	304-074	304-076	304-07	963-220	962-220 R
1 g – 5 kg	304-084	304-086	304-08	963-221	962-221 R
1 g – 10 kg	-	- 304-096	304-09	963-222	962-222 R

TEST WEIGHTS AND BOXES CLASS E2



Milligram weights, wire shape



Milligram weights, flat polygonal sheet



Individual weights, compact shape



Individual weights, knob shape



Plastic box, lined, for individual weights ≤ 50 g



Plastic box, lined, for individual weights ≥ 100 g



Aluminium protected box, lined, for individual weights



Wooden box, lined, for individual weights ≤ 500 g



Wooden box, lined, for individual weights ≥1 kg



Milligram weight set in plastic case (318-22)



Milligram weight set in aluminium protected case, lined (318-226)



Plastic case, lined, for weight sets, compact shape/knob shape



Aluminium protected case, lined, for weight sets, compact shape/knob shape



Wooden case, lined, for weight sets, compact shape/knob shape

Class E2 · Milligram weights, wire shape

Test weight material: stainless steel

Weight	Tol +/- mg	Milligram weight, flat polygonal sheet	Plastic box	Aluminium protected box	Wooden box	DAkkS-accredited certificate
		KERN	KERN	KERN	KERN	KERN
1 mg	0,006	318-31	347-009-400	317-009-600	338-090-200	962-351
2 mg	0,006	318-32	347-009-400	317-009-600	338-090-200	962-352
5 mg	0,006	318-33	347-009-400	317-009-600	338-090-200	962-353
10 mg	0,008	318-34	347-009-400	317-009-600	338-090-200	962-354
20 mg	0,010	318-35	347-009-400	317-009-600	338-090-200	962-355
50 mg	0,012	318-36	347-009-400	317-009-600	338-090-200	962-356
100 mg	0,016	318-37	347-009-400	317-009-600	338-090-200	962-357
200 mg	0,020	318-38	347-009-400	317-009-600	338-090-200	962-358
500 mg	0,025	318-39	347-009-400	317-009-600	338-090-200	962-359
1 mg - 500 mg	-	318-42	-	-	-	-

Class E2 · Milligram weights, flat polygonal sheet

Test weight material: stainless steel

Weight	Tol +/- mg	Milligram weight, flat polygonal sheet	Plastic box	Aluminium protected box	Wooden box	DAkkS-accredited certificate
		KERN	KERN	KERN	KERN	KERN
1 mg	0,006	318-01	347-009-400	317-009-600	338-090-200	962-351
2 mg	0,006	318-02	347-009-400	317-009-600	338-090-200	962-352
5 mg	0,006	318-03	347-009-400	317-009-600	338-090-200	962-353
10 mg	0,008	318-04	347-009-400	317-009-600	338-090-200	962-354
20 mg	0,010	318-05	347-009-400	317-009-600	338-090-200	962-355
50 mg	0,012	318-06	347-009-400	317-009-600	338-090-200	962-356
100 mg	0,016	318-07	347-009-400	317-009-600	338-090-200	962-357
200 mg	0,020	318-08	347-009-400	317-009-600	338-090-200	962-358
500 mg	0,025	318-09	347-009-400	317-009-600	338-090-200	962-359

Class E2 · Individual weights, compact shape or knob shape

Test weight material: stainless steel polished

Weight	Tol +/- mg	Individual weights, compact shape	Individual weights, knob shape	Plastic box	Aluminium protected box	Wooden box	DAkkS-accredited certificate
		KERN	KERN	KERN	KERN	KERN	KERN
1 g	0,03	316-01	317-01	317-020-400	317-010-600	317-010-100	962-331
2 g	0,04	316-02	317-02	317-020-400	317-020-600	317-020-100	962-332
5 g	0,05	316-03	317-03	317-030-400	317-030-600	317-030-100	962-333
10 g	0,06	316-04	317-04	317-040-400	317-040-600	317-040-100	962-334
20 g	0,08	316-05	317-05	317-050-400	317-050-600	317-050-100	962-335
50 g	0,10	316-06	317-06	317-060-400	317-060-600	317-060-100	962-336
100 g	0,16	316-07	317-07	317-070-400	317-070-600	317-070-100	962-337
200 g	0,30	316-08	317-08	317-080-400	317-080-600	317-080-100	962-338
500 g	0,80	316-09	317-09	317-090-400	317-090-600	317-090-100	962-339
1 kg	1,60	316-11	317-11	317-110-400	317-110-600	317-110-100	962-341
2 kg	3,00	316-12	317-12	317-120-400	317-120-600	317-120-100	962-342
5 kg	8,00	316-13	317-13	317-130-400	317-130-600	317-130-100	962-343
10 kg	16,00	316-14	317-14	317-140-400	317-140-600	317-140-100	962-344
20 kg	30,00	-	- 317-15	-	- 317-150-600	317-150-100	962-345
50 kg	80,00	-	- 317-16	-	- 317-160-600	317-160-100	962-346

Tip:
Our highly-accurate OIML test weights are also available as **PREMIUM+ weights** for that extra level of safety. See all details page 175 or on www.kern-lab.com/premium+

Class E2 · Weight sets, compact shape

Test weight material: Milligram weights stainless steel, individual weights: polished stainless steel

Weight sets	Compact shape in plastic case	Compact shape in aluminium protected case	DAkkS-accredited certificate
	KERN	KERN	KERN
1 mg - 500 mg	318-22	318-226	962-350
1 g - 50 g	312-024	312-026	962-315
1 g - 100 g	312-034	312-036	962-316
1 g - 200 g	312-044	312-046	962-317
1 g - 500 g	312-054	312-056	962-318
1 g - 1 kg	312-064	312-066	962-319
1 g - 2 kg	312-074	312-076	962-320
1 g - 5 kg	312-084	312-086	962-321
1 g -10 kg	-	- 312-096	962-322

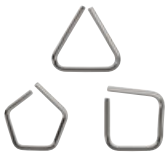
Class E2 · Weight sets, knob shape

Test weight material: Milligram weights stainless steel, individual weights: polished stainless steel

Weight sets	Knob shape in plastic case	Knob shape in aluminium protected case	Knob shape in wooden case	DAkkS-accredited certificate
	KERN	KERN	KERN	KERN
1 mg - 500 mg	318-22	318-226		962-350
1 mg - 50 g	313-024	313-026	313-02	962-301
1 mg - 100 g	313-034	313-036	313-03	962-302
1 mg - 200 g	313-044	313-046	313-04	962-303
1 mg - 500 g	313-054	313-056	313-05	962-304
1 mg - 1 kg	313-064	313-066	313-06	962-305
1 mg - 2 kg	313-074	313-076	313-07	962-306
1 mg - 5 kg	313-084	313-086	313-08	962-307
1 mg - 10 kg	-	- 313-096	313-09	962-308
1 g - 50 g	314-024	314-026	314-02	962-315
1 g - 100 g	314-034	314-036	314-03	962-316
1 g - 200 g	314-044	314-046	314-04	962-317
1 g - 500 g	314-054	314-056	314-05	962-318
1 g - 1 kg	314-064	314-066	314-06	962-319
1 g - 2 kg	314-074	314-076	314-07	962-320
1 g - 5 kg	314-084	314-086	314-08	962-321
1 g -10 kg	-	- 314-096	314-09	962-322

Tip:
Our highly-accurate OIML test weights are also available as **PREMIUM+ weights** for that extra level of safety. See all details page 175 or on www.kern-lab.com/premium+

TEST WEIGHTS AND BOXES CLASS F1



Milligram weights,
wire shape



Milligram weights,
flat polygonal sheet



Individual weights/
Weight sets,
ECO shape



Individual weights/
Weight sets,
knob shape



Test weights (10 – 50 kg),
polished stainless steel,
KERN 327-141 ff,
optional: Wooden box



Block weight,
polished stainless steel



Plastic box, lined, for
- individual weights ≤ 200 g
- individual weights ≥ 500 g



Aluminium protected box, lined,
for individual weights



Wooden box, lined, for
- individual weights ≤ 500 g
- individual weights ≥ 1 kg



Milligram weight
set in plastic case
(328-22)



Milligram weight
set in aluminium
protected case,
lined (328-226)



Plastic case, lined for weight sets,
ECO shape/knob shape



Aluminium protected case, lined,
for weight sets ECO shape/
knob shape



Wooden case, lined, for weight sets
ECO shape/knob shape

Class F1 · Milligram weights, wire shape

Test weight material: stainless steel

Weight	Tol +/- mg	Milligram weight, flat polygonal sheet	Plastic box	Aluminium protected box	Wooden box	DAkkS-accredited certificate
		KERN	KERN	KERN	KERN	KERN
1 mg	0,02	328-31	347-009-400	317-009-600	338-090-200	962-451
2 mg	0,02	328-32	347-009-400	317-009-600	338-090-200	962-452
5 mg	0,02	328-33	347-009-400	317-009-600	338-090-200	962-453
10 mg	0,025	328-34	347-009-400	317-009-600	338-090-200	962-454
20 mg	0,03	328-35	347-009-400	317-009-600	338-090-200	962-455
50 mg	0,04	328-36	347-009-400	317-009-600	338-090-200	962-456
100 mg	0,05	328-37	347-009-400	317-009-600	338-090-200	962-457
200 mg	0,06	328-38	347-009-400	317-009-600	338-090-200	962-458
500 mg	0,08	328-39	347-009-400	317-009-600	338-090-200	962-459
1 mg - 500 mg	-	328-42	-	-	-	-

Class F1 · Milligram weights, flat polygonal sheet

Test weight material: stainless steel

Weight	Tol +/- mg	Milligram weight, flat polygonal sheet	Plastic box	Aluminium protected box	Wooden box	DAkkS-accredited certificate
		KERN	KERN	KERN	KERN	KERN
1 mg	0,02	328-01	347-009-400	317-009-600	338-090-200	962-451
2 mg	0,02	328-02	347-009-400	317-009-600	338-090-200	962-452
5 mg	0,02	328-03	347-009-400	317-009-600	338-090-200	962-453
10 mg	0,025	328-04	347-009-400	317-009-600	338-090-200	962-454
20 mg	0,03	328-05	347-009-400	317-009-600	338-090-200	962-455
50 mg	0,04	328-06	347-009-400	317-009-600	338-090-200	962-456
100 mg	0,05	328-07	347-009-400	317-009-600	338-090-200	962-457
200 mg	0,06	328-08	347-009-400	317-009-600	338-090-200	962-458
500 mg	0,08	328-09	347-009-400	317-009-600	338-090-200	962-459

Class F1 · Individual weights, ECO shape or knob shape

Test weight material: stainless steel polished

Weight	Tol +/- mg	Individual weight, ECO shape	Individual weight, knob shape	Plastic box	Aluminium protected box	Wooden box	DAkkS-accredited certificate
		KERN	KERN	KERN	KERN	KERN	KERN
1 g	0,10	326-01	327-01	347-030-400	317-010-600	317-010-100	962-431
2 g	0,12	326-02	327-02	347-030-400	317-020-600	317-020-100	962-432
5 g	0,16	326-03	327-03	347-030-400	317-030-600	317-030-100	962-433
10 g	0,20	326-04	327-04	347-050-400	317-040-600	317-040-100	962-434
20 g	0,25	326-05	327-05	347-050-400	317-050-600	317-050-100	962-435
50 g	0,30	326-06	327-06	347-070-400	317-060-600	317-060-100	962-436
100 g	0,50	326-07	327-07	347-070-400	317-070-600	317-070-100	962-437
200 g	1,00	326-08	327-08	347-080-400	317-080-600	317-080-100	962-438
500 g	2,50	326-09	327-09	347-090-400	317-090-600	317-090-100	962-439
1 kg	5,00	326-11	327-11	347-110-400	317-110-600	317-110-100	962-441
2 kg	10	326-12	327-12	347-120-400	317-120-600	317-120-100	962-442
5 kg	25	326-13	327-13	347-130-400	317-130-600	317-130-100	962-443
10 kg	50	326-14	327-14	347-140-400	317-140-600	317-140-100	962-444
20 kg	100	–	327-15	–	317-150-600	317-150-100	962-445
50 kg	250	–	327-16	–	317-160-600	317-160-100	962-446

Class F1 · Block weights

Block weight material: stainless steel polished

Weight	Tol +/- mg	Block weight	Aluminium protected box	DAkkS-accredited certificate
		KERN	KERN	KERN
5 kg	25	326-36	346-060-600	962-443
10 kg	50	326-37	346-070-600	962-444
20 kg	100	326-38	346-080-600	962-445
50 kg	250	326-39	346-090-600	962-446

Class F1 · Test weights, stackable

Test weight material: stainless steel polished

Weight	Tol +/- mg	Test weight	Wooden box	DAkkS-accredited certificate
		KERN	KERN	KERN
5 kg	25	327-131	337-131-100	962-443
10 kg	50	327-141	337-141-100	962-444
20 kg	100	327-151	337-151-100	962-445
50 kg	250	327-161	337-161-100	962-446

Class F1 · Weight sets, ECO shape

Test weight material: Milligram weights stainless steel, Individual weights: polished stainless steel

Weight sets	ECO shape in plastic case	ECO shape in aluminium protected case	ECO shape in wooden case	DAkkS-accredited certificate
	KERN	KERN	KERN	KERN
1 mg - 500 mg	328-22	328-226	-	962-450
1 mg - 50 g	325-024	325-026	325-022	962-401
1 mg - 100 g	325-034	325-036	325-032	962-402
1 mg - 200 g	325-044	325-046	325-042	962-403
1 mg - 500 g	325-054	325-056	325-052	962-404
1 mg - 1 kg	325-064	325-066	325-062	962-405
1 mg - 2 kg	325-074	325-076	325-072	962-406
1 mg - 5 kg	325-084	325-086	325-082	962-407
1 mg - 10 kg	-	325-096	325-092	962-408
1 g - 50 g	326-024	326-026	326-022	962-415
1 g - 100 g	326-034	326-036	326-032	962-416
1 g - 200 g	326-044	326-046	326-042	962-417
1 g - 500 g	326-054	326-056	326-052	962-418
1 g - 1 kg	326-064	326-066	326-062	962-419
1 g - 2 kg	326-074	326-076	326-072	962-420
1 g - 5 kg	326-084	326-086	326-082	962-421
1 g - 10 kg	-	326-096	326-092	962-422

Class F1 · Weight sets, knob shape

Test weight material: Milligram weights stainless steel, Individual weights: polished stainless steel

Weight sets	Knob shape in plastic case	Knob shape in aluminium protected case	Knob shape in wooden case	DAkkS-accredited certificate
	KERN	KERN	KERN	KERN
1 mg - 500 mg	328-22	328-226	-	962-450
1 mg - 50 g	323-024	323-026	323-02	962-401
1 mg - 100 g	323-034	323-036	323-03	962-402
1 mg - 200 g	323-044	323-046	323-04	962-403
1 mg - 500 g	323-054	323-056	323-05	962-404
1 mg - 1 kg	323-064	323-066	323-06	962-405
1 mg - 2 kg	323-074	323-076	323-07	962-406
1 mg - 5 kg	323-084	323-086	323-08	962-407
1 mg - 10 kg	-	323-096	323-09	962-408
1 g - 50 g	324-024	324-026	324-02	962-415
1 g - 100 g	324-034	324-036	324-03	962-416
1 g - 200 g	324-044	324-046	324-04	962-417
1 g - 500 g	324-054	324-056	324-05	962-418
1 g - 1 kg	324-064	324-066	324-06	962-419
1 g - 2 kg	324-074	324-076	324-07	962-420
1 g - 5 kg	324-084	324-086	324-08	962-421
1 g - 10 kg	-	324-096	324-09	962-422

TEST WEIGHTS AND BOXES CLASS F2



Milligram weights,
flat polygonal sheet



Individual weights/Weight sets,
knob shape



Block weight, stainless steel



Test weights (10 – 50 kg),
finely turned stainless steel,
KERN 337-141 ff,
optional: Wooden box



Plastic box,
lined, for
individual
weights
≤ 200 g



Plastic box,
lined, for
individual
weights
≥ 500 g



Aluminium protected box, lined,
for individual weights



Wooden box, not lined
for individual weights ≤ 500 g



Wooden box, not lined,
for individual weights ≥1 kg



Milligram weight
set in plastic case
(338-22)



Milligram weight
set in aluminium
protected case,
lined (338-226)



Plastic case, lined, for weight sets,
knob shape



Aluminium protected case, lined,
for weight sets, knob shape



Wooden case, for weight sets,
knob shape

Class F2 · Milligram weights, flat polygonal sheet

Test weight material: stainless steel

Weight	Tol +/- mg	Milligram weight, flat polygonal sheet		Plastic box	Aluminium protected box	Wooden box	DAkkS-accredited certificate
		KERN		KERN	KERN	KERN	KERN
1 mg	0,06	338-01	**8,60**	347-009-400	317-009-600	338-090-200	962-451
2 mg	0,06	338-02	**8,30**	347-009-400	317-009-600	338-090-200	962-452
5 mg	0,06	338-03	**8,60**	347-009-400	317-009-600	338-090-200	962-453
10 mg	0,08	338-04	**8,60**	347-009-400	317-009-600	338-090-200	962-454
20 mg	0,10	338-05	**8,30**	347-009-400	317-009-600	338-090-200	962-455
50 mg	0,12	338-06	**8,60**	347-009-400	317-009-600	338-090-200	962-456
100 mg	0,16	338-07	**8,60**	347-009-400	317-009-600	338-090-200	962-457
200 mg	0,20	338-08	**8,30**	347-009-400	317-009-600	338-090-200	962-458
500 mg	0,25	338-09	**8,60**	347-009-400	317-009-600	338-090-200	962-459

Class F2 · Individual weights, knob shape

Test weight material: finely turned stainless steel

Weight	Tol +/- mg	Individual weight, knob shape	Plastic box	Aluminium protected box	Wooden box	DAkkS-accredited certificate
		KERN	KERN	KERN	KERN	KERN
1 g	0,3	337-01	347-030-400	317-010-600	337-010-200	962-431
2 g	0,4	337-02	347-030-400	317-020-600	337-020-200	962-432
5 g	0,5	337-03	347-030-400	317-030-600	337-030-200	962-433
10 g	0,6	337-04	347-050-400	317-040-600	337-040-200	962-434
20 g	0,8	337-05	347-050-400	317-050-600	337-050-200	962-435
50 g	1,0	337-06	347-070-400	317-060-600	337-060-200	962-436
100 g	1,6	337-07	347-070-400	317-070-600	337-070-200	962-437
200 g	3,0	337-08	347-080-400	317-080-600	337-080-200	962-438
500 g	8,0	337-09	347-090-400	317-090-600	337-090-200	962-439
1 kg	16	337-11	347-110-400	317-110-600	337-110-200	962-441
2 kg	30	337-12	347-120-400	317-120-600	337-120-200	962-442
5 kg	80	337-13	347-130-400	317-130-600	337-130-200	962-443
10 kg	160	337-14	347-140-400	317-140-600	337-140-200	962-444
20 kg	300	337-15	-	- 317-150-600	337-150-200	962-445
50 kg	800	337-16	-	- 317-160-600	337-160-200	962-446

Class F2 · Test weights, stackable

Test weight material: finely turned stainless steel

Weight	Tol +/- mg	Test weight	Wooden box	DAkkS-accredited certificate
		KERN	KERN	KERN
5 kg	80	337-131	337-131-200	962-443
10 kg	160	337-141	337-141-200	962-444
20 kg	300	337-151	337-151-200	962-445
50 kg	800	337-161	337-161-200	962-446

Class F2 · Block weights

Block weight material: stainless steel glass bead blasted

Weight	Tol +/- mg	Block weight	Aluminium protected box	DAkkS-accredited certificate
		KERN	KERN	KERN
5 kg	80	336-36	346-060-600	962-443
10 kg	160	336-37	346-070-600	962-444
20 kg	300	336-38	346-080-600	962-445
50 kg	800	336-39	346-090-600	962-446

Class F2 · Weight sets, knob shape

Test weight material: Milligram weights stainless steel, individual weights finely turned stainless steel

Weight	Knob shape in plastic case	Knob shape in aluminium protected case	Knob shape in wooden case	DAkkS-accredited certificate
	KERN 	KERN 	KERN 	KERN
1 mg - 500 mg	328-22	328-226	-	962-450
1 mg - 50 g	333-024	333-026	333-02	962-401
1 mg - 100 g	333-034	333-036	333-03	962-402
1 mg - 200 g	333-044	333-046	333-04	962-403
1 mg - 500 g	333-054	333-056	333-05	962-404
1 mg - 1 kg	333-064	333-066	333-06	962-405
1 mg - 2 kg	333-074	333-076	333-07	962-406
1 mg - 5 kg	333-084	333-086	333-08	962-407
1 mg - 10 kg	-	333-096	333-09	962-408
1 g - 50 g	334-024	334-026	334-02	962-415
1 g - 100 g	334-034	334-036	334-03	962-416
1 g - 200 g	334-044	334-046	334-04	962-417
1 g - 500 g	334-054	334-056	334-05	962-418
1 g - 1 kg	334-064	334-066	334-06	962-419
1 g - 2 kg	334-074	334-076	334-07	962-420
1 g - 5 kg	334-084	334-086	334-08	962-421
1 g -10 kg	-	334-096	334-09	962-422

TEST WEIGHTS AND BOXES CLASS M1



Milligram weights,
flat polygonal sheet



Individual weights/weight sets,
knob shape, finely turned
stainless steel



Hook weights, finely turned
stainless steel



Slotted weights, finely turned
stainless steel



Plastic box, for individual
weights ≤ 200 g, for hook
weights and slotted weights
≤ 50 g



Plastic box, lined, for
individual weights ≥ 500 g,
for hook weights and
slotted weights ≥ 100 g



Aluminium protected box,
lined, for individual weights



Wooden box, not lined,
for individual weights
≤ 500 g



Wooden box, not lined,
for individual weights ≥1 kg



Milligram weight
set in plastic case
(348-22)



Milligram weight
set in aluminium
protected case,
lined (348-226)



Plastic case, lined, for weight sets,
knob shape, finely turned
stainless steel



Aluminium protected case, lined,
for weight sets, knob shape,
finely turned stainless steel



Wooden case, for weight sets,
knob shape, finely turned
stainless steel



Test weights (10 – 50 kg), finely turned
stainless steel KERN 347-141 ff,
optional: Wooden box



Beam bars, aluminium or
stainless steel



Block weights, lacquered cast iron/stainless steel glass bead blasted,
optional: Aluminium protected box, lined

17

Class M1 · Milligram weights, flat polygonal sheet

Test weight material: stainless steel

Weight	Tol +/- mg	Milligram weight, flat polygonal sheet		Plastic box	Aluminium protected box	Wooden box	DAkkS-accredited certificate
		KERN		KERN	KERN	KERN	KERN
1 mg	0,20	348-01	**5,10**	347-009-400	317-009-600	338-090-200	962-651
2 mg	0,20	348-02	**5,10**	347-009-400	317-009-600	338-090-200	962-652
5 mg	0,20	348-03	**5,10**	347-009-400	317-009-600	338-090-200	962-653
10 mg	0,25	348-04		347-009-400	317-009-600	338-090-200	962-654
20 mg	0,30	348-05	**5,10**	347-009-400	317-009-600	338-090-200	962-655
50 mg	0,40	348-06	**5,10**	347-009-400	317-009-600	338-090-200	962-656
100 mg	0,50	348-07	**5,10**	347-009-400	317-009-600	338-090-200	962-657
200 mg	0,60	348-08	**5,10**	347-009-400	317-009-600	338-090-200	962-658
500 mg	0,80	348-09	**5,10**	347-009-400	317-009-600	338-090-200	962-659

Class M1 · Individual weights, knob shape

Test weights material: stainless steel

Weight	Tol +/- mg	Individual weight		Plastic box	Aluminium protected box	Wooden box	DAkkS-accredited certificate
		KERN		KERN	KERN	KERN	KERN
1 g	1,0	347-01	**8,70**	347-030-400	317-010-600	337-010-200	962-631
2 g	1,2	347-02	**8,70**	347-030-400	317-020-600	337-020-200	962-632
5 g	1,6	347-03	**8,90**	347-030-400	317-030-600	337-030-200	962-633
10 g	2,0	347-04	**9,30**	347-050-400	317-040-600	337-040-200	962-634
20 g	2,5	347-05		347-050-400	317-050-600	337-050-200	962-635
50 g	3,0	347-06		347-070-400	317-060-600	337-060-200	962-636
100 g	5,0	347-07		347-070-400	317-070-600	337-070-200	962-637
200 g	10	347-08		347-080-400	317-080-600	337-080-200	962-638
500 g	25	347-09		347-090-400	317-090-600	337-090-200	962-639
1 kg	50	347-11		347-110-400	317-110-600	337-110-200	962-641
2 kg	100	347-12		347-120-400	317-120-600	337-120-200	962-642
5 kg	250	347-13		347-130-400	317-130-600	337-130-200	962-643
10 kg	500	347-14		347-140-400	317-140-600	337-140-200	962-644

Class M1 · Block weights

Block weight material: lacquered cast iron, surface and edges machined or unmachined (ECO)

Weight	Tol +/- g	Block weight	ECO Block weight	Aluminium protected box	DAkkS-accredited certificate
		KERN	KERN	KERN	KERN
5 kg	0,25	346-86	346-76	346-060-600	962-643
10 kg	0,50	346-87	346-77	346-070-600	962-644
20 kg	1,00	346-88	346-78	346-080-600	962-645
50 kg	2,50	346-89	346-79	346-090-600	962-646

Class M1 · Block weights

Block weight material: stainless steel glass bead blasted

Weight	Tol +/- g	Block weight	Aluminium protected box	DAkkS-accredited certificate
		KERN	KERN	KERN
5 kg	0,25	346-06	346-060-600	962-643
10 kg	0,50	346-07	346-070-600	962-644
20 kg	1,00	346-08	346-080-600	962-645
50 kg	2,50	346-09	346-090-600	962-646

Class M1 · Test weights, stackable

Test weight material: finely turned stainless steel

Weight	Tol +/- g	Test weight	Wooden box	DAkkS-accredited certificate
		KERN	KERN	KERN
5 kg	0,25	347-131	337-131-200	962-643
10 kg	0,5	347-141	337-141-200	962-644
20 kg	1,0	347-151	337-151-200	962-645
50 kg	2,5	347-161	337-161-200	962-646

Class M1 · Heavy duty weights, stackable

Heavy duty weight material: lacquered steel
Designed to be lifted with forklift trucks or cranes, delivery time is approx. 6–8 weeks
Dimensions: see internet on www.kern-sohn.com

Weight	Tol +/- g	Heavy duty weight	DAkkS-accredited certificate
		KERN	KERN
100 kg	5	346-81	962-691
200 kg	10	346-82	962-692
500 kg	25	346-83	962-693
1000 kg	50	346-84	962-694
2000 kg	100	346-85	962-695

Class M1 · Weight sets, knob shape

Test weight material: Milligram weights stainless steel, individual weights finely turned stainless steel

Weight	Knob shape, in plastic case	Knob shape, in aluminium protected case	Knob shape, in wooden case	DAkkS-accredited certificate
	KERN	KERN	KERN	KERN
1 mg - 500 mg	348-22	348-226	-	962-650
1 mg – 50 g	343-024	343-026	343-02	962-601
1 mg – 100 g	343-034	343-036	343-03	962-602
1 mg – 200 g	343-044	343-046	343-04	962-603
1 mg – 500 g	343-054	343-056	343-05	962-604
1 mg – 1 kg	343-064	343-066	343-06	962-605
1 mg – 2 kg	343-074	343-076	343-07	962-606
1 mg – 5 kg	343-084	343-086	343-08	962-607
1 mg – 10 kg	-	- 343-096	343-09	962-608
1 g – 50 g	344-024	344-026	344-02	962-615
1 g – 100 g	344-034	344-036	344-03	962-616
1 g – 200 g	344-044	344-046	344-04	962-617
1 g – 500 g	344-054	344-056	344-05	962-618
1 g – 1 kg	344-064	344-066	344-06	962-619
1 g – 2 kg	344-074	344-076	344-07	962-620
1 g – 5 kg	344-084	344-086	344-08	962-621
1 g – 10 kg	-	- 344-096	344-09	962-622

Tip:
We also offer a large range of heavy-duty weights in other materials, (e.g. stainless steel) and in other forms (e.g. discs) or individual weight containers, please ask for details.

Class M1 · Slotted weights

Slotted weight material: finely turned stainless steel

Weight	Tol +/- mg	Slotted weight	Plastic box, lined	DAkkS-accredited certificate
		KERN	KERN	KERN
1 g	1,0	347-015	347-030-400	962-631
2 g	1,2	347-025	347-030-400	962-632
5 g	1,6	347-035	347-030-400	962-633
10 g	2,0	347-045	347-030-400	962-634
20 g	2,5	347-055	347-080-400	962-635
50 g	3,0	347-065	347-080-400	962-636
100 g	5,0	347-075	347-090-400	962-637
200 g	10	347-085	347-090-400	962-638
500 g	25	347-095	347-110-400	962-639
1 kg	50	347-115	347-130-400	962-641
2 kg	100	347-125	347-130-400	962-642
5 kg	250	347-135	347-140-400	962-643
10 kg	500	347-145	347-140-400	962-644



Class M1 · Beam bars, for fixing slotted weights

Beam bars material: 10 g: aluminium, 100 g–1 kg: finely turned stainless steel

Own weight beam bar	Maximum total load [1]	Largest slotted weight possible	Material	Length	Beam bar	DAkkS-accredited certificate
					KERN	KERN
10 g	200 g	100 g	Aluminium	117,5	347-445-100*	962-634
100 g	2 kg	1 kg	Stainless steel	238	347-075-100**	962-637
500 g	20 kg	10 kg	Stainless steel	639	347-095-100***	962-639
1 kg	40 kg	10 kg	Stainless steel	1020	347-115-100***	962-641

[1] is exclusive of the own weight of the beam bar, e.g. the maximum possible total weight is calculated from "Maximum total load" + "own weight beam bar"

Class M1 · Slotted weights

Slotted weight material: finely turned stainless steel (only compatible with the 347-...7-100 series supporting bars)

Weight	Tol +/- mg	Slotted weight	DAkkS-accredited certificate
		KERN	KERN
5 g	1,6	347-037	962-633
10 g	2,0	347-047	962-634
20 g	2,5	347-057	962-635
50 g	3,0	347-067	962-636
100 g	5,0	347-077	962-637
200 g	10	347-087	962-638
500 g	25	347-097	962-639
1 kg	50	347-117	962-641
2 kg	100	347-127	962-642
5 kg	250	347-137	962-643
10 kg	500	347-147	962-644



Class M1 · Beam bars, for fixing slotted weights

Beam bars material: 10 g: aluminium, 100 g–1 kg: finely turned stainless steel (only compatible with the 347-...7 series slotted weights)

Own weight beam bar	Maximum total load [1]	Largest slotted weight possible	Material	Length	Tol +/- mg	Beam bar	DAkkS-accredited certificate
						KERN	KERN
1 kg	46 kg	10 kg	Stainless steel	300 mm	50	347-117-100	962-641
5 kg	95 kg	10 kg	Stainless steel	600 mm	250	347-137-100	962-643
10 kg	126 kg	10 kg	Stainless steel	800 mm	500	347-147-100	962-644

[1] is exclusive of the own weight of the beam bar, e.g. the maximum possible total weight is calculated from "Maximum total load" + "own weight beam bar"

Class M1 · Hook weights

Hook weight material: finely turned stainless steel

Weight	Tol +/- mg	Hook weight	Plastic box, linned		DAkkS-accredited certificate
		KERN	KERN		KERN
1 g	1,0	347-016	347-030-400		962-631
2 g	1,2	347-026	347-030-400		962-632
5 g	1,6	347-036	347-030-400		962-633
10 g	2,0	347-046	347-050-400		962-634
20 g	2,5	347-056	347-050-400		962-635
50 g	3,0	347-066	347-070-400		962-636
100 g	5,0	347-076	347-090-400	**4,50**	962-637
200 g	10,0	347-086	347-090-400	**4,50**	962-638
500 g	25,0	347-096	347-110-400	**5,70**	962-639
1 kg	50,0	347-116	347-120-400	**7,50**	962-641
2 kg	100,0	347-126	347-130-400		962-642
5 kg	250,0	347-136	347-140-400		962-643
10 kg	500,0	347-146	–	–	962-644



Newton weights (N):

All hook and slotted weights as well as beam bars are available **with N adjustment according to M1 tolerances**, additional price
We need to know the exact location of use of the newton weights (street, postcode, city and country).
Calibration certificates with accreditation symbol for N weights: identical to DAkkS prices for individual weights **M1**, additional price

TEST WEIGHTS AND BOXES CLASSES M2 · M3



Individual weights/Weight sets,
knob shape, stainless steel



Individual weights/Weight sets,
knob shape, lacquered cast iron



Block weights,
lacquered cast iron



Plastic box, lined,
for individual weights



Aluminium protected box,
lined, for individual weights



Wooden box, not lined, for
individual weights ≤ 500 g,
! not appropriate for
cast iron weights



Wooden box, not lined, for
individual weights ≥1 kg,
! not appropriate for
cast iron weights



Aluminium protected case,
lined, for block weights



Aluminium protected case, lined, for weight
sets knob shape, finely turned stainless steel,
! not appropriate for cast iron weights



Wooden case, for weight sets, knob shape,
finely turned stainless steel



Wooden block, for weight sets,
knob shape, lacquered cast iron

17

Class M2 · Individual weights, knob shape

Test weight material: finely turned stainless steel

Weight	Tol +/- mg	Individual weight, knob shape		Plastic box	Aluminium protected box	Wooden box	DAkkS-accredited certificate
		KERN		KERN	KERN	KERN	KERN
1 g	3	357-01	**8,70**	347-030-400	317-010-600	337-010-200	962-631
2 g	4	357-02	**8,70**	347-030-400	317-020-600	337-020-200	962-632
5 g	5	357-03	**8,90**	347-030-400	317-030-600	337-030-200	962-633
10 g	6	357-04	**9,30**	347-050-400	317-040-600	337-040-200	962-634
20 g	8	357-05		347-050-400	317-050-600	337-050-200	962-635
50 g	10	357-06		347-070-400	317-060-600	337-060-200	962-636
100 g	16	357-07		347-070-400	317-070-600	337-070-200	962-637
200 g	30	357-08		347-080-400	317-080-600	337-080-200	962-638
500 g	80	357-09		347-090-400	317-090-600	337-090-200	962-639
1 kg	160	357-11		347-110-400	317-110-600	337-110-200	962-641
2 kg	300	357-12		347-120-400	317-120-600	337-120-200	962-642
5 kg	800	357-13		347-130-400	317-130-600	337-130-200	962-643
10 kg	1600	357-14		347-140-400	317-140-600	337-140-200	962-644

Class M2 · Block weights

Block weight material: lacquered cast iron, surface and edges machined or unmachined (ECO)

Weight	Tol +/- g	Block weight	ECO block weight	Aluminium protected box	DAkkS-accredited certificate
		KERN	KERN	KERN	KERN
5 kg	0,8	356-86	356-76	346-060-600	962-643
10 kg	1,6	356-87	356-77	346-070-600	962-644
20 kg	3,0	356-88	356-78	346-080-600	962-645
50 kg	8,0	356-89	356-79	346-090-600	962-646

Class M2 · Weight sets, knob shape

Test weight material: finely turned stainless steel

Weight	Knob shape, in aluminium protected case	Knob shape, in wooden case	DAkkS-accredited certificate
	KERN	KERN	KERN
1 g – 50 g	354-026	354-02	962-615
1 g – 100 g	354-036	354-03	962-616
1 g – 200 g	354-046	354-04	962-617
1 g – 500 g	354-056	354-05	962-618
1 g – 1 kg	354-066	354-06	962-619
1 g – 2 kg	354-076	354-07	962-620
1 g – 5 kg	354-086	354-08	962-621
1 g – 10 kg	354-096	354-09	962-622

Class M3 · Individual weights, knob shape

Test weight material: finely turned stainless steel

Weight	Tol +/- mg	Individual weight, knob shape		Plastic box	Aluminium protected box	Wooden box	DAkkS-accredited certificate
		KERN		KERN	KERN	KERN	KERN
1 g	10	367-01		347-030-400	317-010-600	337-010-200	962-631
2 g	12	367-02	**7,70**	347-030-400	317-020-600	337-020-200	962-632
5 g	16	367-03		347-030-400	317-030-600	337-030-200	962-633
10 g	20	367-04	**8,50**	347-050-400	317-040-600	337-040-200	962-634
20 g	25	367-05		347-050-400	317-050-600	337-050-200	962-635
50 g	30	367-06		347-070-400	317-060-600	337-060-200	962-636
100 g	50	367-07		347-070-400	317-070-600	337-070-200	962-637
200 g	100	367-08		347-080-400	317-080-600	337-080-200	962-638
500 g	250	367-09		347-090-400	317-090-600	337-090-200	962-639
1 kg	500	367-11		347-110-400	317-110-600	337-110-200	962-641
2 kg	1000	367-12		347-120-400	317-120-600	337-120-200	962-642

Class M3 · Individual weights, knob and cylindrical shape

Test weight material: lacquered cast iron

Weight	Tol +/- g	Individual weight, knob and cylindrical shape	DAkkS-accredited certificate
		KERN	KERN
100 g*	0,05	366-91	962-637
200 g*	0,10	366-92	962-638
500 g**	0,25	366-93	962-639
1 kg**	0,50	366-94	962-641
2 kg**	1,0	366-95	962-642
5 kg**	2,5	366-96	962-643
10 kg**	5,0	366-97	962-644



Class M3 · Block weights

Block weight material: lacquered cast iron, surface and edges machined or unmachined (ECO)

Weight	Tol +/- g	Block weight	ECO block weight	Aluminium protected box	DAkkS-accredited certificate
		KERN	KERN	KERN	KERN
5 kg	2,5	366-86	366-76	346-060-600	962-643
10 kg	5,0	366-87	366-77	346-070-600	962-644
20 kg	10	366-88	366-78	346-080-600	962-645
50 kg	25	366-89	366-79	346-090-600	962-646

Class M3 · Weight sets, knob and cylindrical shape

Test weight material: ≤ 50 g stainless steel, ≥ 100 g lacquered cast iron

Weight	Knob and cylindrical shape, in wooden block	DAkkS-accredited certificate
	KERN	KERN
1 g – 1 kg	362-96	962-619
1 g – 2 kg	362-97	962-620
1 g – 5 kg	362-98	962-621
1 g – 10 kg	362-99	962-622



Weight set
1 g – 10 kg

Tweezers, weight grips, gloves, dusting brush



Tweezers
to be able to safely grip small test weights

For class	For weight	Length	Version	KERN
E1 - M3	1 mg – 200 g	105 mm	1 Stainless steel with silicone-coated tips	315-243
E1 - M3	500 g – 2 kg	250 mm	1 Stainless steel with silicone-coated tips	315-245
E1 - M3	≤ 5 g	130 mm	2 Stainless steel, curved, high-quality plastic tips	315-246*
E1 - M3	≤ 5 g	136 mm	3 Stainless steel, straight, high quality plastic tips	315-247
E1 - M3	≤ 200 g	225 mm	4 Stainless steel, straight, high-quality plastic tips, with a special shape for gripping weights of various shapes and sizes	315-248*
F2 – M3	1 mg – 200 g	100 mm	5 Stainless steel	335-240*
E1 – M3	1 mg – 200 g	100 mm	6 Plastic	315-242

! * ONLY WHILE STOCKS LAST

Weight grip
plastic coated

For class	For knob shaped weights	KERN
E1 - M3	2 kg	315-273
E1 - M3	5 kg	315-274
E1 - M3	10 kg	315-275
E1 - M3	20 kg	315-276





! not appropriate for cast iron weights



Gloves
Cotton, 1 pair. Help to protect the test weights when being used daily, from grease from fingers, damp etc.
Suitable for test weights up to 2 kg.

KERN
317-280



Gloves
Leather/cotton, 1 pair. Help to protect the test weights when being used daily, from grease from fingers, damp etc.
Ideal for test weights from 2 kg.

KERN
317-290



Premium gloves
Nylon, 1 pair.
Particularly elastic, one size fits all, with special fingertip coating to ensure a safe grip. Helps to protect the test weights in everyday use from grease from fingers, damp etc.
Ideal for all test weights.

KERN
317-281



Dusting brush
to clean the weights

KERN
318-270



Bellows
for cleaning weights

KERN
318-271



Microfibre cloth
for cleaning weights

KERN
318-272

Boxes for individual weights



For weights ≤ 200 g, OIML class E1 - E2:
Box with lid

Box material: Plastic, lined, suitable for single weights, KERN No. 307, 316, 317, 327, 337, 347

Plastic box, lined
for single weights E1 – E2

For weights		KERN
1 - 500 mg	(single)	347-009-400
1 – 2 g	(single)	317-020-400
5 g		317-030-400
10 g		317-040-400
20 g		317-050-400
50 g		317-060-400
100 g		317-070-400
200 g		317-080-400
500 g		317-090-400
1 kg		317-110-400
2 kg		317-120-400
5 kg		317-130-400
10 kg		317-140-400



For weights ≥ 500 g, OIML class E1 - M3:
Box with screw cap

Box material: Plastic, not lined, suitable for single weights, KERN No. 307, 316, 317, 327, 337, 347

Plastic box, not lined
for single weights E1 – M3

For weights		KERN
1 - 500 mg	(single)	347-009-400
1 g - 5 g	(single)	347-030-400
10 g - 20 g	(single)	347-050-400
50 g - 100 g	(single)	347-070-400
200 g		347-080-400
500 g		347-090-400
1 kg		347-110-400
2 kg		347-120-400
5 kg		347-130-400
10 kg		347-140-400



For weights ≤ 500 g,
OIML class E1 – F1

For weights ≥ 1 kg,
OIML class E1 – F1

Box material: Wood, lined, suitable for single weights, KERN No. 307, 316, 317, 326, 327

Wooden box, lined
for single weights E1 – F1

For weights	KERN	
-	-	-
1 g	317-010-100	
2 g	317-020-100	
5 g	317-030-100	
10 g	317-040-100	
20 g	317-050-100	
50 g	317-060-100	
100 g	317-070-100	
200 g	317-080-100	
500 g	317-090-100	
1 kg	317-110-100	
2 kg	317-120-100	
5 kg	317-130-100	
10 kg	317-140-100	
20 kg	317-150-100	
50 kg	317-160-100	



For weights ≤ 500 g,
OIML class F2 – M3

For weights ≥ 1 kg,
OIML class F2 – M3

Box material: Wood, not lined, suitable for single weights, KERN No. 337, 347, 357, 367
! not suitable for cast iron weights

Wooden box, not lined
for single weights F2 – M3

For weights		KERN
1 - 500 mg	(single)	338-090-200
1 g		337-010-200
2 g		337-020-200
5 g		337-030-200
10 g		337-040-200
20 g		337-050-200
50 g		337-060-200
100 g		337-070-200
200 g		337-080-200
500 g		337-090-200
1 kg		337-110-200
2 kg		337-120-200
5 kg		337-130-200
10 kg		337-140-200
20 kg		337-150-200
50 kg		337-160-200



For test weights ≥ 10 kg,
OIML class F1 – M1

Box material: Wood, lined/not lined, suitable for single weights, KERN No. 327, 337, 347
! not suitable for cast iron weights

Wooden box, not lined
for test weights F1 – M1

For weights	KERN
5 kg	337-131-200
10 kg	337-141-200
20 kg	337-151-200
50 kg	337-161-200

Wooden box, lined
for test weights F1

For weights	KERN
5 kg	337-131-100
10 kg	337-141-100
20 kg	337-151-100
50 kg	337-161-100

Boxes for individual weights



For weights ≤ 5 kg, OIML class E1 – M3

Box material: Aluminium protected, lined, suitable for mg and single weights, KERN No. 307, 308, 316, 317, 318, 326, 327, 328, 337, 338, 347, 348, 357, 367
! not suitable for cast iron weights

Aluminium protected box, lined
for individual weights, knob and compact shape, class E1 – M3

For weights	KERN
1 - 500 mg (single)	317-009-600
1 g	317-010-600
2 g	317-020-600
5 g	317-030-600
10 g	317-040-600
20 g	317-050-600
50 g	317-060-600
100 g	317-070-600
200 g	317-080-600
500 g	317-090-600
1 kg	317-110-600
2 kg	317-120-600
5 kg	317-130-600



For weights ≤ 10 kg, OIML class E1 – M3

Box material: Aluminium protected, lined, suitable for single weights, KERN No. 307, 316, 317, 326, 327, 337, 347, 357, 367
! not suitable for cast iron weights

Aluminium protected box, lined
for individual weights, knob and compact shape, class E1 – M3

For weights	KERN
10 kg	317-140-600
20 kg	317-150-600
50 kg	317-160-600



For block weight ≥ 5 kg, OIML class F1 – M3

Box material: Aluminium protected, lined, suitable for block weights, KERN No. 326, 336, 346, 356, 366

Aluminium protected box, lined
for individual weights F1 – M3

For weights	KERN
5 kg	346-060-600
10 kg	346-070-600
20 kg	346-080-600
50 kg	346-090-600

Clean room boxes



For weights ≤ 500 g, OIML class E1 - M1
For weights 1 g – 2 kg, OIML class E1 - M1

Box material: POM (Polyoxymethylen), not lined, suitable for single weights, KERN No. 307, 316, 317, 327, 337, 347

Polyoxymethylene boxes POM, unlined
for single weights E1 – M1

For weights	KERN
1 - 500 mg (single)	317-009-700
1 g	317-010-700
2 g	317-020-700
5 g	317-030-700
10 g	317-040-700
20 g	317-050-700
50 g	317-060-700
100 g	317-070-700
200 g	317-080-700
500 g	317-090-700
1 kg	317-110-700
2 kg	317-120-700



For weights 10 kg - 20 kg, OIML class E1 - M1
*Box with handle

Box material: POM (Polyoxymethylen), not lined, suitable for single weights, KERN No. 307, 316, 317, 327, 337, 347

Polyoxymethylene boxes POM, unlined
for single weights E1 – M1

For weights	KERN
5 kg*	317-130-700
10 kg*	317-140-700
20 kg*	317-150-700

Carrying cases/boxes for individual weight sets

Individual weight sets
Configure your weight set according to your requirements.

KERN will manufacture a custom-fit wooden case or plastic case for you – drilled and padded according to your specifications.
Please note: These universal cases are custom-made and therefore cannot be returned. The largest individual weight which will fit is given in the table.

Sample order:
Your individual weight set (class F1):
1 × 50 g, 2 × 100 g, 1 × 500 g, 2 × 1 kg, 1 × 2 kg.

The correct individual box is **KERN No. 313-080-400** (plastic) or **KERN No. 315-070-100** (wood, lined)



Plastic case
for individual weight sets classes E1 – M3,
not appropriate for cast iron weights

Largest possible weight	KERN
≤ 500 g	313-050-400
≤ 5 kg	313-080-400



Wooden case
lined, for individual weight sets classes E1 – F1
* with side handles

Largest possible weight	KERN
≤ 200 g	315-040-100
≤ 1 kg	315-060-100
≤ 2 kg	315-070-100
≤ 5 kg*	315-080-100
≤ 10 kg*	315-090-100



Wooden case not lined, for individual weight set classes F2 – M3, not appropriate for cast iron weights *
with side handles

Largest possible weight	KERN
≤ 200 g	335-040-200
≤ 500 g	335-050-200
≤ 1 kg	335-060-200
≤ 2 kg	335-070-200
≤ 5 kg*	335-080-200
≤ 10 kg*	335-090-200

Carrying cases for standard weight sets



Plastic case for weight sets
with standard denomination classes E1 – M3,
not appropriate for cast iron weights

Largest possible weight	KERN
≤ 500 g	313-052-400
≤ 5 kg	313-082-400





Fig. shows
313-010-600

Aluminium protected case for safe storage and transportation under harsh industrial conditions.

Aluminium protected case
for weight sets with standard denomination classes E1 – M2
*no handle **1 front handle ***2 side handles

For weights	For class	KERN
1 mg - 500 mg	E1 - M1	313-010-600*
1 mg - 50 g	E1 - M1	313-020-600*
1 mg - 100 g	E1 - M1	313-030-600*
1 mg - 200 g	E1 - M1	313-040-600*
1 mg - 500 g	E1 - M1	313-050-600*
1 mg - 1 kg	E1 - M1	313-060-600*
1 mg - 2 kg	E1 - M1	313-070-600**
1 mg - 5 kg	E1 - M1	313-080-600***
1 mg - 10 kg	E1 - M1	313-090-600***
1 g - 50 g	E1 - M2	314-020-600*
1 g - 100 g	E1 - M2	314-030-600*
1 g - 200 g	E1 - M2	314-040-600*
1 g - 500 g	E1 - M2	314-050-600*
1 g - 1 kg	E1 - M2	314-060-600*
1 g - 2 kg	E1 - M2	314-070-600*
1 g - 5 kg	E1 - M2	314-080-600***
1 g - 10 kg	E1 - M2	314-090-600***

Weight containers for rectangular weights or other test weights, stainless steel glass bead blasted, adjusted to OIML class M1

Preconfigured weight containers for testing high-load floor scales, pallet scales, pallet truck scales, crane scales, etc. This can also be used for storing the weights. This means the weight container and the weights can be placed on the balance in one go, saving you time and money. The weight container is adjusted to OIML accuracy class M1.
Other OIML accuracy classes are also available, please ask.

Weight of the weight container, OIML class M1	Tol +/- g	Possible equipment, rectangular weights, OIML class M1	Maximum total weight (weight container incl. weights)	Price (weight container excluding weights)	
				KERN	on request
20 kg	1,0	5 × 20 kg	120 kg	346-022-005	
40 kg	1,5	8 × 20 kg	200 kg	346-042-008	
50 kg	2,5	10 × 20 kg	250 kg	346-052-010	
50 kg	2,5	4 × 50 kg	250 kg	346-055-004	
50 kg	2,5	9 × 50 kg	500 kg	346-055-009	
60 kg	3,0	8 × 50 kg and 2 × 20 kg	500 kg	346-065-009	



Weight of the weight container, OIML class M1	Tol +/- g	Possible equipment, test weights, OIML class M1	Maximum total weight (weight container incl. weights)	Price (weight container excluding weights)	
				KERN	on request
20 kg	1,0	max. 10 × 10 kg or 5 × 20 kg	120 kg	347-022-005	
40 kg	2,0	max. 16 × 10 kg or 8 × 20 kg	200 kg	347-042-008	
50 kg	2,5	max. 20 × 10 kg or 10 × 20 kg	250 kg	347-052-010	
60 kg	3,0	max. 22 × 20 kg	500 kg	347-062-022	



Individual weight containers for rectangular weights or other test weights, calibrated to OIML class M1

Individual weight carriers for testing high capacity floor scales, pallet scales, pallet truck scales, crane scales, etc. This can also be used for storing the weights. This means the weight container and the weights can be placed on the scale in one go, saving time and money.

The weight container can be calibrated to OIML accuracy classes M1 – M3.
On request, KERN will make you a “tailor-made” weight carrier to your specifications.

Example:

3 block weights	each 50 kg, class M1	=	150 kg
1 weight container	each 50 kg, class M1	=	50 kg
Total		=	200 kg

Weight of the weight container, OIML class M1	Price	
	KERN	on request
Individual weight container for rectangular weights	346-000-000	
Individual weight container for test weights	347-000-000	



Example illustration

18



ACCREDITED CALIBRATION, VERIFICATION SERVICE

The DAkkS (German accreditation body)
The DAkkS is the national accreditation body of the Federal Republic of Germany. According to Regulation (EC) No. 765/2008 and the Accreditation Body Act (AkkStelleG), the DAkkS acts in the public interest as the sole service provider for accreditation in Germany.

In order to be able to fulfil its sovereign accreditation tasks, the DAkkS was entrusted by the Federal Government. As an entrusted body, the DAkkS is subject to federal supervision.

Only an accredited calibration laboratory can issue an certificate with accreditation symbol. 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 ...**
> Calibration certificate with accreditation symbol (traceability, measuring uncertainty, internationally recognised)

KERN – Precision is our business
The KERN calibration laboratory for electronic balances and weights has been accredited by DKD since 1994 and today is one of the most modern and best-equipped DAkkS calibration laboratories for balances, test weights and force measurement in Europe.

Thanks to the high level of automation, we can carry out accredited calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

Do you have any further requests or questions on this matter? We would be pleased to help you or visit us on the web at www.kern-lab.com

Accredited calibration

Why? Accredited calibration is always necessary when checking equipment (balance or test weight) is to be used in a QM process (e.g. to ISO 9000ff, GS 9000, TS 16949, VDA 6.1, FDA, GLP, GMP, GMP etc.)

What?
Any checking equipment in proper condition can be accredited calibrated

How? Determination of accuracy throughout the world by a laboratory which is accredited to DIN EN ISO 17025. Traceability to internationally recognised standards. The certificate with accreditation symbol confirms both the measurement characteristics of the checking equipment and the general requirements for the control of checking equipment.

Where? Internationally recognised – this is monitored by ILAC (International Laboratory Accreditation Cooperation) and e.g. DAkkS (German calibration service) in Germany

When? The operator control the use of checking equipment and periodic recalibration time intervals themselves

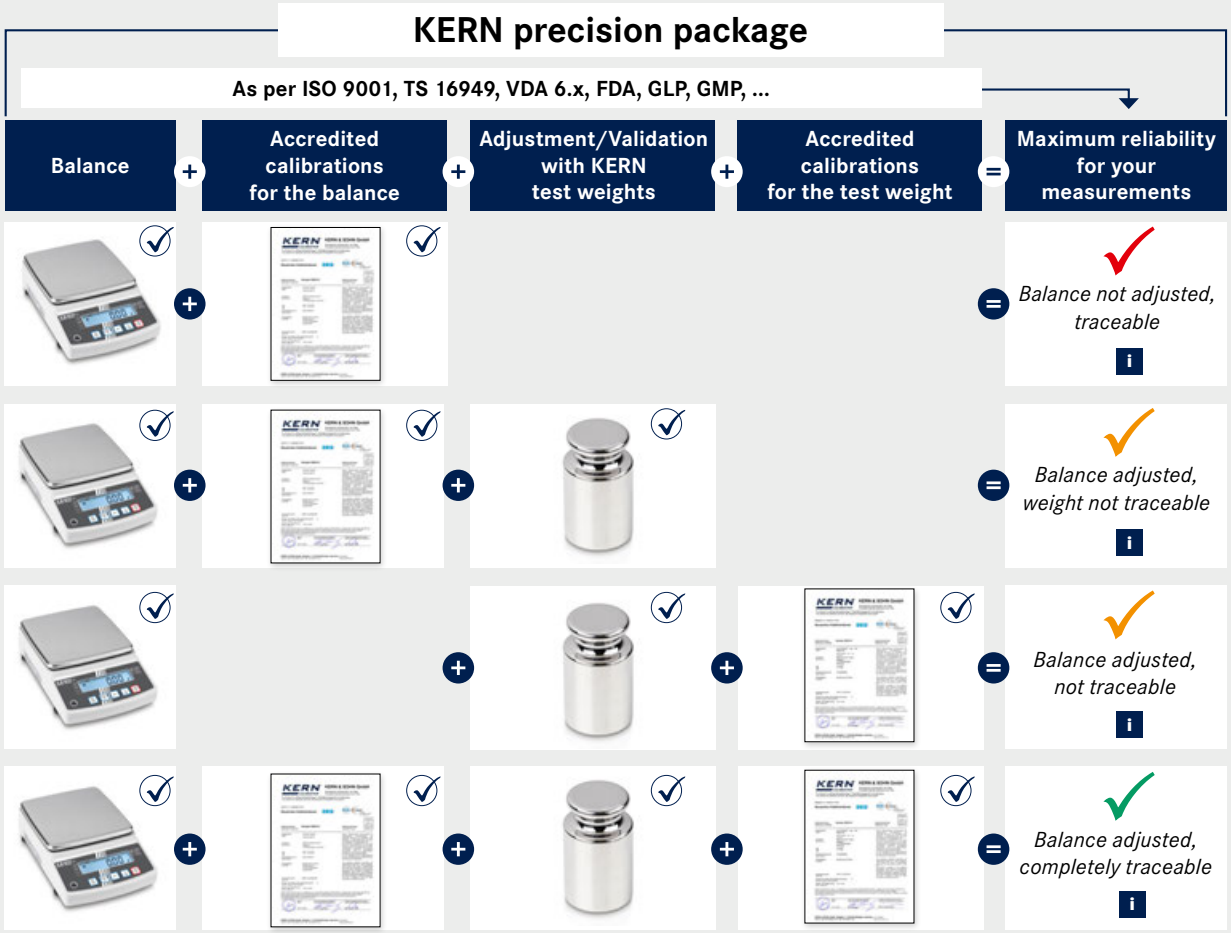
Range of services:
Area accredited by DAkkS:
- Accredited calibration of balances with a maximum load of up to 50.000 kg
- Accredited calibration of weights in the range of 1 mg – 2.500 kg. Calibrations can be carried out in the following classes: E1, E2, F1, F2, M1, M2, M3
- Accredited calibration of force gauges and force transducers
- Volume determination for weights of accuracy class E1
- Accredited calibration of temperature and humidity sensors

Area offered as factory calibration:
- Measuring of sensitivity (magnetic characteristics)
- Factory calibration in various sizes: Force (sensors and measuring devices), hardness (Shore, UCI, Leeb, etc.), thickness of coatings and walls, torque wrench testing devices, and much more
- Conformity assessments and initial or periodic verification of balances, as well as periodic verification of weights.

And on top of all these services, we also offer additional services.

Balance & weight in the quality management system

Do you already use all the modules of the KERN precision package for maximum accuracy and reliability of your balance?



Information and ordering: kern-sohn.com/qmb

The KERN calibration laboratory (D-K-19408-01-00)

KERN has a highly-automated DAkkS laboratory with accreditation to DIN EN ISO/IEC 17025 in numerous fields.
By using the most modern calibration technology with high-end calibration robots in fully air-conditioned laboratories, the measurement uncertainty and process times are reduced to a minimum, and also the quality of the calibration is increased.

As an accredited and certified calibration service provider with decades of experience, KERN offers you an extensive range of services, which will leave no demand unfulfilled. The accreditation applies to the extent specified in the appendix to the certificate D-K-19408-01-00.

We offer the following services:

Balances

- Accredited calibration up to 50 t
- Minimum sample weight (in use)
- Usage accuracy
- Adjustment at the location of installation
- Certificate of conformity
- Equipment qualification:
  - > Design qualification (DQ)
  - > Installation qualification (IQ)
  - > Function qualification (OQ)
  - > Performance qualification (PQ)
  - > Maintenance qualification (MQ)
- Conformity assessment/Verification

Weights

- Accredited calibration up to 2.5 t (OIML classes E1 – M3)
- Volume determination for OIML class E1
- Measuring of sensitivity (magnetic characteristics)

Force measuring devices and force transducers

- Accredited calibration up to 5 kN

Temperature and humidity sensors

- Accredited calibration up to 50 °C resp. 75 %

Factory calibration for

- Force measuring devices and force transducers ≤ 250 kN
- Hardness
- Layer thickness
- Material thickness
- Temperature of moisture analysers

Our commitment to satisfy our customers never stops. Perhaps this is one of the reasons why our roots can perhaps be traced so far back in history.
Discover the KERN route to success: fast – competent – reliable – versatile!

The order process

1. You will receive a **reminder** that your test equipment is due or you will generate online a quotation for new or existing test equipment
2. Submission or collection of your test equipment
3. Initial inspection of your goods, to check that they are suitable for calibration, and are complete, etc.
4. You will get a detailed **order confirmation**
5. Our experts will carry out **initial calibration**
6. Checked for conformity with required tolerances and if required, any **necessary actions** which arise from this are carried out
7. Before these actions are carried out, we will contact you (in so far as no **individual processing** has been agreed with you beforehand)
8. After your **approval** the necessary actions will be implemented and the calibration will be completed
9. After that your **test equipment will be returned** to you without delay, together with the appropriate calibration certificates
10. We will **monitor your recalibration periods** and will send you a reminder about your next calibration, free of charge

Our service

▸ **Reminder service**
The continuous cyclic recalibration of your checking equipment is an integral part of the reliable management of test equipment. You can rely on us to support you, and we will remind you in time, free of charge, when the next recalibration is due. In addition, you have the option of managing your test equipment online by yourself (cf. 1, 10).

▸ **Quote generator**
You will be impressed by our price-to-performance ratio. Request a non-binding quotation or create it yourself to suit your specifications at www.kern-lab.com (cf. 1)

▸ **Collection service**
We will be pleased to arrange a pick up by our forwarding agent the goods from your premises. You only need to tell us the weight and dimensions of your package and leave the rest to us (cf. 2)

▸ **Repair and reconditioning of balances and weights**
KERN will get your weights back up to standard, regardless of the manufacturer. Whether it is adjustment, marking, sand blasting or lacquering - the aim here is compliance and long-term stability. Any repairs of balances and instruments which may be necessary can be carried out quickly and easily (cf. 5, 6)

▸ **Individual processing**
In order to avoid delays with future orders, we would be pleased to incorporate your individual requirements for future processing of such calibration results. Even for smaller issues such as the printing of calibration certificates (stapling, punching, double-sided) we can work to your requirements (cf. 8).

▸ **Express service and dispatch**
If you need a particularly fast service, you can use our express service. You will receive your test equipment after only 2 days (cf. 9).

www.kern-lab.com – the central portal for everything you need to know about the extensive KERN calibration services

On our website you will always find the latest news and useful information about testing and measuring devices, calibration, legal metrology and expansions to our range of services. You will also find numerous online services on the website.

Database supported management of test equipment
Information on your test equipment which has been calibrated by us is stored in our database. In this way it is possible to make trend calculations. You will therefore get an overview about the long-term stability and trend behaviour of your test equipment as well as the necessary recalibration period can easily be determined and specified.

Paperless documentation
So there is no administrative effort, we can handle all calibration documentation in a paperless process. From quotation, through to order confirmation, delivery note and invoice right up to calibration certificate, you will receive all documents by e-mail or you can retrieve them online. Would you prefer to receive your certificate or your invoice in paper form, for example? Of course this is not a problem either. We will send you everything you require by post.

Calibration certificate download
By using our download service you can easily download your calibration certificates as soon as the calibration work is complete and you will have access to them at any time in the future. Simply create your user account on www.kern-lab.com and you will never have to look for your certificates again.



Accredited Calibration of Balances

Any balance will only give correct results if it is checked regularly, i.e. calibrated correctly and adjusted when required. A balance is only a reliable measuring and checking tool if it is calibrated and this calibration is documented. The issued calibration certificates with accreditation symbol are proof of the metrological traceability to national and international standards, as required by the DIN EN ISO 9000 and DIN EN ISO/IEC 17025 standards, amongst others. KERN recommends a recalibration period of one year. The standard does not give a defined recalibration period. KERN recommends that, with intensive (daily) use, you to recalibrate your balance every 6 months and at normal (weekly) use, every 12 months.

The advantages of using on-site calibration:

+ **Calibration on-site** at your premises in the field of use
+ **Minimisation of measurement uncertainty** and guarantee of process accuracy strictly according to guideline EURAMET cg-18
+ **No risk of damage** during transportation
+ **Low downtime**
+ **Direct and personal contact** with the service technician
+ **Cross-brand servicing,** basic inspection and adjustment by a specialist
+ You tell us **when you would like us to come**
+ **Device training** for qualified users



The advantages of using in-house calibration:

+ **Short calibration time:** Test time in the laboratory is only four working days
+ **Competence:** Calibration laboratory, which complies with the highest standards in the area of metrology
+ **Independent management** of the recalibration calendar for your individual measuring instrument is possible
+ **Cross-brand service:** Measuring devices from any manufacturer can be calibrated independently
+ **Repair:** Any necessary repairs can be carried out immediately, if you wish





a) KERN on-site calibration (we visit you)

In Germany, KERN has a close-knit network of calibration laboratory employees, who can carry out on-site calibration of balances up to 50 tonnes.

This on-site testing service is metrologically recommended, as your balance is in its field of use and can be calibrated without any possible transportation problems.

Lower downtime and personal contact with our expert are the major benefits of this service.

Preparatory maintenance work by agreement. Prices for on-site calibration on request.

You tell us when you would like us to come, giving us details of the balances to be tested. Our on-site calibration team will then get in touch with you immediately and will discuss the process with you at your premises – it's straight forward and professional.

This KERN calibration service is also independent of the brand.

Please feel free to contact us at Phone +49 7433 9933-400 or
E-Mail: testservices-onsite@kern-sohn.com

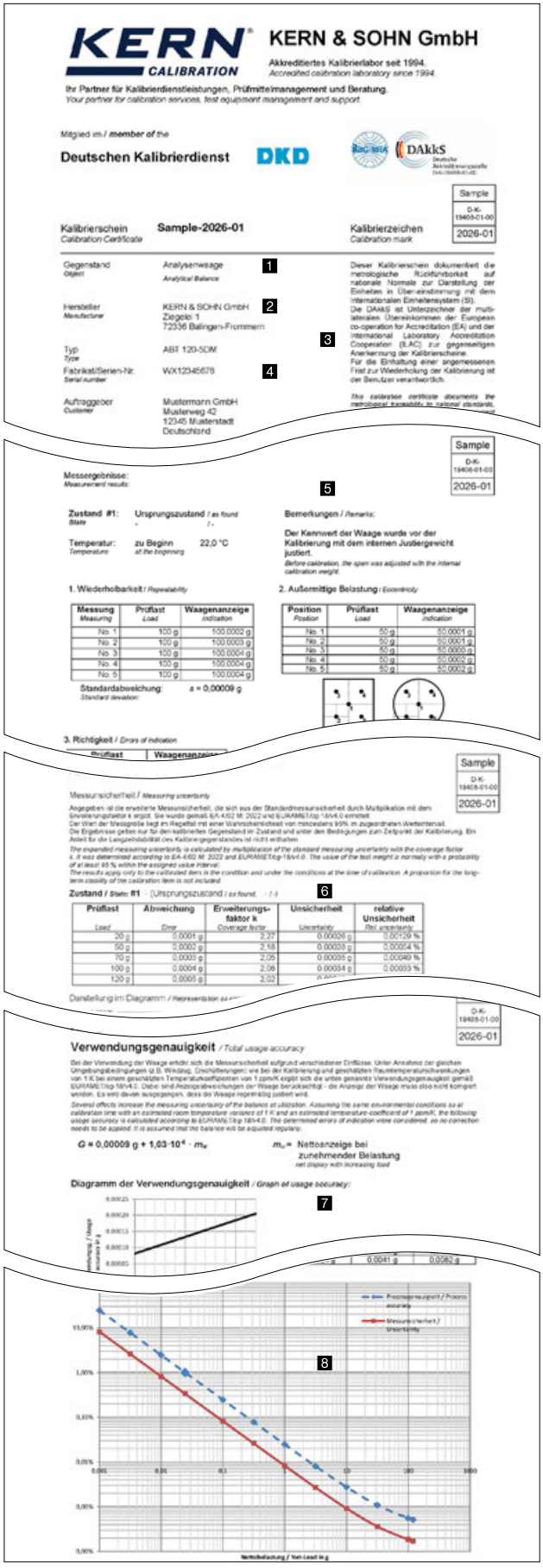
b) Calibration at the KERN factory (you send your balance to us)

Recommended for new devices and for balances which can be affordably transported, as then there is no need for us to travel to carry out the calibration on-site. Repairs can be carried out at the same time, quickly and in full.

The process would be as follows:

Day 1:	Send your balance to the KERN calibration laboratory in Balingen.
Day 2 to 3:	Evaluation and calibration of your balance by our specialists.
Day 4:	After positive validation, your balance is returned.

Please feel free to contact us at Phone +49 7433 9933-400 or
E-Mail: recalibration-balances@kern-sohn.com



Calibration certificate with accreditation symbol for balances (extract)

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:

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.



Recalibration of balances at the KERN factory **KERN** **Price on request**

Weighing capacity	
Analytical balances	
[Max] ≤ 5 kg	963-101R
[Max] > 5 kg	963-102R
Precision balances/Industrial scales	
[Max] ≤ 5 kg	963-127R
[Max] > 5 kg – 50 kg	963-128R
[Max] > 50 kg – 350 kg	963-129R
[Max] > 350 kg – 1500 kg	963-130R
[Max] > 1500 kg – 2900 kg[1)]	963-131R
[Max] > 2900 kg – 6000 kg[1)]	963-132R
[Max] > 6000 kg – 12000 kg[1)]	963-133R
Hanging scales/Crane scales	
[Max] ≤ 5 kg	963-127HR
[Max] > 5 kg – 50 kg	963-128HR
[Max] > 50 kg – 350 kg	963-129HR
[Max] > 350 kg – 1500 kg	963-130HR
[Max] > 1500 kg – 2900 kg	963-131HR
[Max] > 2900 kg – 6000 kg	963-132HR
[Max] > 6000 kg – 12000 kg[3)]	963-133HR
Preparation for recalibration (cleaning, function test)	969-003R
Additional services	
Minimum weight of sample (for details see page 209)	969-103R
Additional measurement points (as part of the) weighing test	963-140R
Additional measurement points (as part of the) repeatability testing	963-140R
Express service with delivery time 48 hours (only on initial purchase)	962-116R
Express shipping: Express supplement for guaranteed delivery on the next working day (if ready for shipment before 12:00 noon)	in GER only *(other countries on request)*

[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

1 Official document
2 Item to be calibrated
3 Traceability, see the *Glossary*
4 Identification/Applicant
5 Metrological component
6 Uncertainty of measurement, see the *Glossary*
7 Application accuracy, see the *Glossary*
8 Minimum weight of sample (additional price)

Minimum weight of sample (in use)

What is the lightest item you can weigh on your balance, while still achieving accurate and reliable weighing results? What exactly is the limit?

The KERN minimum sample weight protocol accounts for the established minimum sample weight of your balance and its location of installation and use with the relative measuring uncertainty. With various safety coefficients and required weighing accuracy (process accuracy), depending on standard or quality-related requirements on the balance being used.

The higher the selected safety coefficient, the higher the safety when using the balance in a particular process.

Typical perturbations when using the balance e.g. small fluctuations in temperature are taken into account. In easily predictable conditions in a professional environment of use, KERN recommends a safety coefficient of 3. For critical processes, a correspondingly higher factor should be selected. The minimum sample weight protocol contains a diagram as well as a table, from which you can ascertain the minimum sample weight for your balance, depending on the process.

Adjustment at the location of installation

Why?
Adjustment at the location of installation is necessary, as the measuring results of balances depend on the local gravitational force (gravitational acceleration) and therefore depend on the location of use. KERN can carry this out just before shipping at the factor, individually to suit the location of installation.

What are the advantages of carrying out adjustment at the location of installation?

- The balance gives reliable measurement results at the location of installation.
- No time-consuming on-site adjustment necessary.
- You do not need a Service Engineer or any additional weights.
- The balance is ready for immediate use.

Pricing table for adjustment at the location of installation

Weighing capacity	KERN	Price on request
[Max] ≤ 5 kg	961-247	
[Max] > 5 – 50 kg	961-248	
[Max] > 50 – 350 kg	961-249	
[Max] > 350 – 1500 kg	961-250	
[Max] > 1500 – 2900 kg	961-251	
[Max] > 2900 – 6000 kg	961-252	
[Max] > 6000 – 12000 kg	961-253	

For adjustment to the location of installation you need the value for gravitational acceleration at the location of installation, which KERN can calculate using the point of use. The procedure is suitable for balances with a resolution of <60,000 d. For higher resolutions we recommend a balance with an internal adjusting weight or adjustment with a calibrated adjusting weight at the location of installation.

Certificate of conformity

With a certificate of conformity you get a statement about whether the balance meets your defined requirements. In conjunction with a calibration certificate with accreditation symbol it serves as documented proof that the balance fulfils the required process demands. When doing this the process owner for the balance can select from different temperature specifications – depending on its individual requirements:

Conformity evaluation on the basis of the:		KERN	Price on request
Usage accuracy*	relative absolute	969-511 969-512	on request
Calibration results*	relative absolute	969-513 969-514	on request
Measurements as manufacturer or customer specification	Foreign devices Customer specific. devices KERN devices	969-515 969-516 969-517	on request on request

relative = % / absolute = g

*as attachment to the calibration certificate with accreditation symbol (Details see www.kern-lab.com)

Example for absolute customer tolerance (absolute) (Item no. 969-511):

No.	Tare	Load	Display	Deviation	Uncertainty	Customer tolerance	Conformity[1)]
1	0 g	500 g	500,00 g	0,00 g	± 0,013 g	± 0,05 g	☑
2	0 g	1000 g	1000,00 g	0,00 g	± 0,015 g	± 0,05 g	☑
3	0 g	1500 g	1500,01 g	0,01 g	± 0,017 g	± 0,05 g	☑
4	0 g	2000 g	2000,01 g	0,01 g	± 0,020 g	± 0,10 g	☑
5	0 g	3000 g	3000,02 g	0,02 g	± 0,022 g	± 0,10 g	☑

[1)] Evaluation criteria: |[Deviation]| + [extended measuring uncertainty] ≤ [tolerance]

Documented quality of your balances in the log book

Consistently high product quality requires the use of measuring and test equipment that provides comprehensible, consistent and reproducible results. Hence, quality management systems require that measuring and test equipment produces a detailed traceable description and documentation of calibration results and conformity statements. According to the guiding principle of GMP/GLP: “Work not documented is work not done.”

Equipment qualification is documentary evidence that a equipment is suitable for the intended purpose and is working faultlessly. A balance log book as well as our EQS (Equipment Qualification Software) is used to record all activities and results required for the qualification and monitoring of balances during routine operation. This includes the installation and commissioning of the balances, routine tests, maintenance as well as the recording of special events (failures, repairs, change of location).

The structure of the balance log book is based on the qualification process of the balance. The requirements for the qualification system such as DIN EN ISO 9001, DIN EN ISO/IEC 17025, GLP/GMP, VDA must be taken into account. The log book supports the user in his/her daily work with the balance and is meant to serve as necessary evidence during inspections and audits. The responsibility for maintaining the log book and its appropriate use is to be borne by the user.

Our proposal: Count on our support!

KERN offers this qualification concept throughout. Our validation services are carried out on the spot by technicians of our calibration laboratory and comprise among other things: installation, measurement test inclusive calibration certificate with accreditation symbol as well as records in your qualification log book of the EQS software (Equipment Qualification Software).

We give you advice about the options of device qualification, as required and will be happy to set up an appointment for qualification at the place of installation.

We offer individual calibration and maintenance agreements for the periodically required requalification.

Further information can be found at www.kern-lab.com



Important elements of equipment qualification:

Design qualification (DQ)

With the design qualification, which ist carried out under consideration of a requirement specification/functional description, all the requirements on which you as a user depend on, are defined. The purchase decision is made on the basis of the design specifications and the available devices. Careful selection in the DQ can prevent subsequent deficiencies.

Installation qualification (IQ)

During the installation qualification based on a FMEA, we perform a documented installation, up to the qualified commissioning of your device. Points of this qualification are:

- Scope of delivery and identification
- Visual inspection of the system components
- Evaluation of the installation site
- Hardware installation and device settings
- Cleaning
- Query of work instructions during use
- Clarification of deviations
- Document review and approval

We carry out our qualifications in accordance with the GMP standard.

Function qualification (OQ)

Instruction is given to the user/s. Items of the OQ are:

- Function test of the system
- Initial adjustment on site
- Metrological verification including USP & Ph.Eur.
- Creation of test protocols
- Check of menu function and error message
- Review and approval of documents
- Evaluation of performance and determination of further test procedure

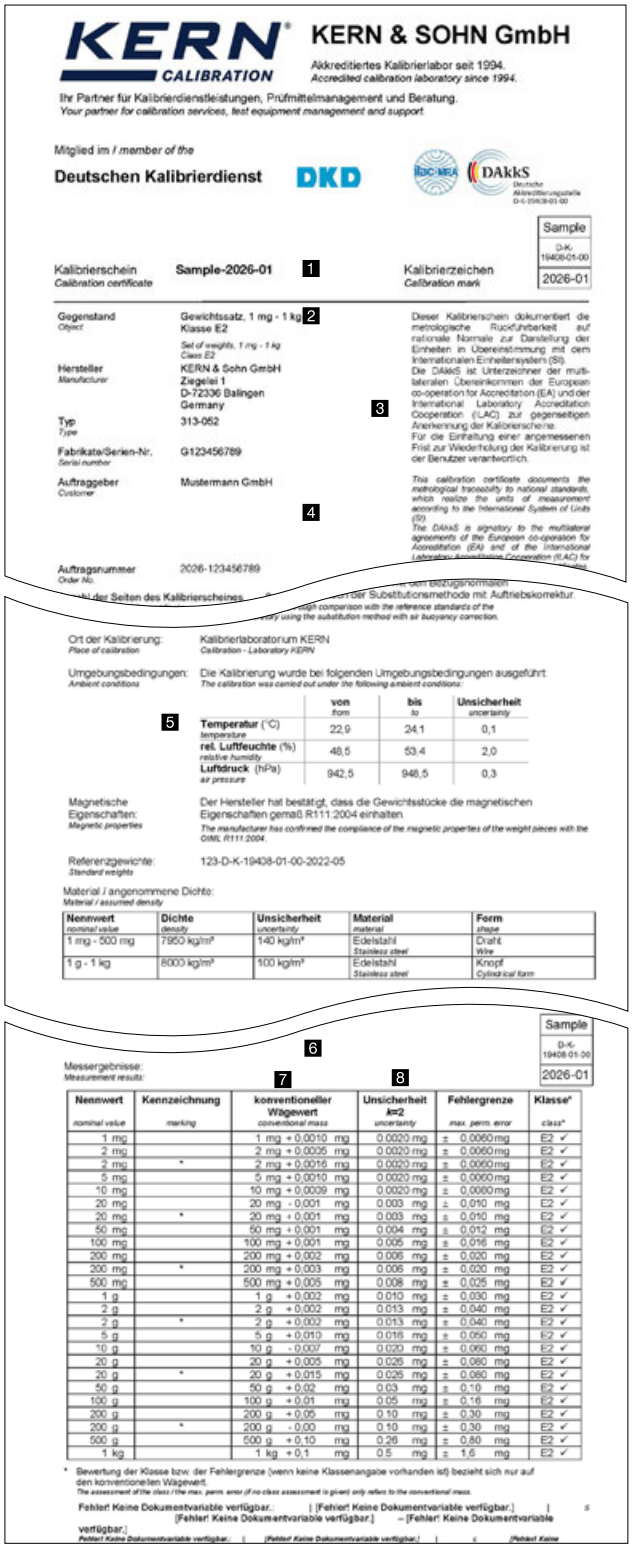
Performance qualification (PQ)

The PQ represents documented evidence that the balance or weighing system functions in the selected application as intended. This will be assured by a qualification test of the equipment under real conditions with respect to its surroundings and the problem definition (such as traceable data transmission).

Maintenance qualification (MQ)

The periodical maintenance, cleaning work and complete metrological test of the balance/weighing system is documented in the MQ by a trained authorised engineer. Maintenance is carried out with the help of a maintenance schedule. The maintenance times are determined by you. We are happy to support you with a maintenance contract for the entire organisation of your measuring system.

If you are interested in a training for equipment qualification, please feel free to contact us at **+49 7433 9933-400** or **testservices-onsite@kern-sohn.com**



KERN CALIBRATION

KERN & SOHN GmbH

Akkreditiertes Kalibrierlabor seit 1994.
Accredited calibration laboratory since 1994.

Ihr Partner für Kalibrierdienstleistungen, Prüfmittelmanagement und Beratung.
Your partner for calibration services, test equipment management and support.

Mitglied im / *member of the*
Deutschen Kalibrierdienst DKD

Sample
D-K-19408-01-00
2026-01

Kalibrierschein / *Calibration certificate* Sample-2026-01 1
Kalibrierzeichen / *Calibration mark*

Gegenstand / *Object* Gewichtssatz, 1 mg - 1 kg 2
Klasse E2
Set of weights, 1 mg - 1 kg
Class E2

Hersteller / *Manufacturer* KERN & Sohn GmbH
Ziegelei 1
D-72336 Balingen
Germany

Typ / *Type* 313-052

Fabrikate/Serien-Nr. / *Serial number* G123456789

Auftraggeber / *Customer* Mustermann GmbH

Auftragsnummer / *Order No.* 2026-123456789

3

Dieser Kalibrierschein dokumentiert die metrologische Rückführbarkeit 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 Wiederholung der Kalibrierung ist der Benutzer verantwortlich.

This calibration certificate documents the metrological traceability to national standards, which realize the units of measurement according to the International System of Units (SI).
The DAkkS is signatory to the multilateral agreements of the European co-operation for Accreditation (EA) and of the International Laboratory Accreditation Cooperation (ILAC) for

4

Ort der Kalibrierung / *Place of calibration*: Kalibrierlaboratorium KERN / *Calibration - Laboratory KERN*

Umgebungsbedingungen / *Ambient conditions*: Die Kalibrierung wurde bei folgenden Umgebungsbedingungen ausgeführt / *The calibration was carried out under the following ambient conditions:*

5

	von / *from*	bis / *to*	Unsicherheit / *uncertainty*
Temperatur (°C) / *temperature*	22,9	24,1	0,1
rel. Luftfeuchte (%) / *relative humidity*	48,5	53,4	2,0
Luftdruck (hPa) / *air pressure*	942,5	948,5	0,3

Magnetische Eigenschaften / *Magnetic properties*: Der Hersteller hat bestätigt, dass die Gewichtsstücke die magnetischen Eigenschaften gemäß R111:2004 einhalten.
The manufacturer has confirmed the compliance of the magnetic properties of the weight pieces with the OIML R111:2004.

Referenzgewichte / *Standard weights*: 123-D-K-19408-01-00-2022-05

Material / angenommene Dichte / *Material / assumed density*

Nennwert / *nominal value*	Dichte / *density*	Unsicherheit / *uncertainty*	Material / *material*	Form / *shape*
1 mg - 500 mg	7950 kg/m³	140 kg/m³	Edelstahl / *Stainless steel*	Draht / *Wire*
1 g - 1 kg	8000 kg/m³	100 kg/m³	Edelstahl / *Stainless steel*	Knopf / *Cylindrical form*

6

Sample
D-K-19408-01-00
2026-01

Messergebnisse / *Measurement results:*

7 8

Nennwert / *nominal value*	Kennzeichnung / *marking*	konventioneller Wägewert / *conventional mass*	Unsicherheit k=2 / *uncertainty*	Fehlergrenze / *max. perm. error*	Klasse* / *class**
1 mg		1 mg + 0,0010 mg	0,0020 mg	± 0,0060 mg	E2 ✓
2 mg		2 mg + 0,0005 mg	0,0020 mg	± 0,0060 mg	E2 ✓
2 mg	*	2 mg + 0,0016 mg	0,0020 mg	± 0,0060 mg	E2 ✓
5 mg		5 mg + 0,0010 mg	0,0020 mg	± 0,0060 mg	E2 ✓
10 mg		10 mg + 0,0009 mg	0,0020 mg	± 0,0060 mg	E2 ✓
20 mg		20 mg - 0,001 mg	0,003 mg	± 0,010 mg	E2 ✓
20 mg	*	20 mg + 0,001 mg	0,003 mg	± 0,010 mg	E2 ✓
50 mg		50 mg + 0,001 mg	0,004 mg	± 0,012 mg	E2 ✓
100 mg		100 mg + 0,001 mg	0,005 mg	± 0,016 mg	E2 ✓
200 mg		200 mg + 0,002 mg	0,006 mg	± 0,020 mg	E2 ✓
200 mg	*	200 mg + 0,003 mg	0,006 mg	± 0,020 mg	E2 ✓
500 mg		500 mg + 0,005 mg	0,008 mg	± 0,025 mg	E2 ✓
1 g		1 g + 0,002 mg	0,010 mg	± 0,030 mg	E2 ✓
2 g		2 g + 0,002 mg	0,013 mg	± 0,040 mg	E2 ✓
2 g	*	2 g + 0,002 mg	0,013 mg	± 0,040 mg	E2 ✓
5 g		5 g + 0,010 mg	0,016 mg	± 0,050 mg	E2 ✓
10 g		10 g - 0,007 mg	0,020 mg	± 0,060 mg	E2 ✓
20 g		20 g + 0,005 mg	0,026 mg	± 0,080 mg	E2 ✓
20 g	*	20 g + 0,015 mg	0,026 mg	± 0,080 mg	E2 ✓
50 g		50 g + 0,02 mg	0,03 mg	± 0,10 mg	E2 ✓
100 g		100 g + 0,01 mg	0,05 mg	± 0,16 mg	E2 ✓
200 g		200 g + 0,05 mg	0,10 mg	± 0,30 mg	E2 ✓
200 g	*	200 g - 0,00 mg	0,10 mg	± 0,30 mg	E2 ✓
500 g		500 g + 0,10 mg	0,26 mg	± 0,80 mg	E2 ✓
1 kg		1 kg + 0,1 mg	0,5 mg	± 1,6 mg	E2 ✓

* Bewertung der Klasse bzw. der Fehlergrenze (wenn keine Klassenangabe vorhanden ist) bezieht sich nur auf den konventionellen Wägewert.
The assessment of the class / the max. perm. error (if no class assessment is given) only refers to the conventional mass.

Fehler! Keine Dokumentvariable verfügbar. | [Fehler! Keine Dokumentvariable verfügbar.] | [Fehler! Keine Dokumentvariable verfügbar.] – [Fehler! Keine Dokumentvariable verfügbar.]

Calibration certificate with accreditation symbol for test weights (extract).
For more details on our calibration service and other useful information, please see the internet at www.kern-lab.com

1 Official document
2 Item to be calibrated
3 Traceability, see the *Glossary*
4 Identification/Applicant
5 Environmental conditions
6 Metrological component
7 Conventional mass
8 Uncertainty of measurement, see the *Glossary*

Traceable KERN test weights – Calibration of test weights

Calibrated measuring equipment requires calibrated checking equipment. For balances, these are calibrated test weights, also called “standard weights”.

KERN will calibrate your test weights

- In all classes with permissible error limits E1–M3 according to OIML R111:2004 in sizes 1 mg to 2500 kg
- With free nominal value
- Newton (N)
- Independent of design (special designs)

The advantages of using the KERN in-house calibration

You send your test weights to us.

- Excellent price performance ratio
- The quickest processing time
  - Standard service: 4 working days
  - Express service: 48 hrs (new weights)
- The most modern calibration methods with robot controlled comparators allow the most accurate calibration results and fastest throughput time
- KERN calibration certificates with accreditation symbol are internationally recognised
- A calibration service which is independent of the brand
- KERN also reconditions existing customer weights (e.g. cleaning or readjustment)
- On request, we can also provide a pick-up and collection service with our parcel service

The advantages of using the KERN on-site calibration

We visit you.

We would be pleased to visit you within Germany and carry out the calibration of your reference standards to OIML classes M1–M3, 10 kg–2500 kg with permissible error limits, using our mobile MACOS system. Minimized downtime of your checking equipment and direct contact with our expert are the major benefits of this service. Price on request.

Recalibration

- The recalibration schedule depends on the frequency of use, the conditions of use and the safety requirements
- In terms of standardisation, no particular recalibration interval is specified
- We would recommend that you recalibrate your test weights every six months if they are used intensively, and every 12 months with normal use
- We would be pleased to monitor your recalibration schedule

Class acc. →	E1[2] with volume determination		E1[1] without volume determination		E2[1]		F1/F2[1] * F2 only		M1/M2/M3[1]	
	Price on request		Price on request		Price on request		Price on request		Price on request	
Nominal value ↓	KERN		KERN		KERN		KERN		KERN	
1 mg	–	–	962-251R		962-351R		962-451R		962-651R	
2 mg	–	–	962-252R		962-352R		962-452R		962-652R	
5 mg	–	–	962-253R		962-353R		962-453R		962-653R	
10 mg	–	–	962-254R		962-354R		962-454R		962-654R	
20 mg	–	–	962-255R		962-355R		962-455R		962-655R	
50 mg	–	–	962-256R		962-356R		962-456R		962-656R	
100 mg	–	–	962-257R		962-357R		962-457R		962-657R	
200 mg	–	–	962-258R		962-358R		962-458R		962-658R	
500 mg	–	–	962-259R		962-359R		962-459R		962-659R	
1 g	963-231		962-231R		962-331R		962-431R		962-631R	
2 g	963-232		962-232R		962-332R		962-432R		962-632R	
5 g	963-233		962-233R		962-333R		962-433R		962-633R	
10 g	963-234		962-234R		962-334R		962-434R		962-634R	
20 g	963-235		962-235R		962-335R		962-435R		962-635R	
50 g	963-236		962-236R		962-336R		962-436R		962-636R	
100 g	963-237		962-237R		962-337R		962-437R		962-637R	
200 g	963-238		962-238R		962-338R		962-438R		962-638R	
500 g	963-239		962-239R		962-339R		962-439R		962-639R	
1 kg	963-241		962-241R		962-341R		962-441R		962-641R	
2 kg	963-242		962-242R		962-342R		962-442R		962-642R	
5 kg	963-243		962-243R		962-343R		962-443R		962-643R	
10 kg	963-244		962-244R		962-344R		962-444R		962-644R	
20 kg	963-245		962-245R		962-345R		962-445R		962-645R	
50 kg	963-246		962-246R		962-346R		962-446R		962-646R	
100 kg	–	–	–	–	–	–	962-591R*		962-691R	
200 kg	–	–	–	–	–	–	962-592R*		962-692R	
500 kg	–	–	–	–	–	–	962-593R*		962-693R	
1000 kg	–	–	–	–	–	–	–	–	962-694R	
2000 kg	–	–	–	–	–	–	–	–	962-695R	
1 mg–500 mg	–	–	962-250R		962-350R		962-450R		962-650R	
1 mg–50 g	963-201		962-201R		962-301R		962-401R		962-601R	
1 mg–100 g	963-202		962-202R		962-302R		962-402R		962-602R	
1 mg–200 g	963-203		962-203R		962-303R		962-403R		962-603R	
1 mg–500 g	963-204		962-204R		962-304R		962-404R		962-604R	
1 mg–1 kg	963-205		962-205R		962-305R		962-405R		962-605R	
1 mg–2 kg	963-206		962-206R		962-306R		962-406R		962-606R	
1 mg–5 kg	963-207		962-207R		962-307R		962-407R		962-607R	
1 mg–10 kg	963-208		962-208R		962-308R		962-408R		962-608R	
1 g–50 g	963-215		962-215R		962-315R		962-415R		962-615R	
1 g–100 g	963-216		962-216R		962-316R		962-416R		962-616R	
1 g–200 g	963-217		962-217R		962-317R		962-417R		962-617R	
1 g–500 g	963-218		962-218R		962-318R		962-418R		962-618R	
1 g–1 kg	963-219		962-219R		962-319R		962-419R		962-619R	
1 g–2 kg	963-220		962-220R		962-320R		962-420R		962-620R	
1 g–5 kg	963-221		962-221R		962-321R		962-421R		962-621R	
1 g–10 kg	963-222		962-222R		962-322R		962-422R		962-622R	

[1] Processing time 4 working days, [2] Processing time 15 working days, [1] Preparation of reverification of balances, 969-006R

Additional costs for preparation, overhaul and adjustment before the calibration	KERN	Price on request
Preparation of weights (e.g. cleaning, etc.)		
Single weight	969-001R	
Weight set	969-002R	
Subsequent services are carried out after confirmation		
Continued overhaul of weights e.g. wet-cleaning, markings, repair, special packaging, adjustment, ...	969-005R	**T & M basis**
Adjustment, per weight only available for weights with adjustment chamber (F1– M3)	969-010R	
Second calibration after adjustment or substitution, per weight		
Class E1	969-210R	
Class E1 incl. volume determination	969-211R	
Class E2	969-310R	
Class F1/F2	969-410R	
Class M1– M3	969-610R	
Testing of magnetic properties according to OIML R111:2004, per weight	961-115R	
Calibration of NON-OIML test weights, additional price per weight	–	

KERN Standard Service Time*[1]

Standard service Class E2 – M3	4 working days
Standard service Class E1, 1 mg – 500 mg, and recalibration 1 g – 10 kg with a known volume	10 working days
Class E1, ≥ 1 g, incl. volume determination (new weights)	15 working days

*[1] The delivery time for recalibrations can vary depending on the order situation as well as in case of queries, bottlenecks, etc.



Express service in 48 hours
except for class E1

- Urgent order is received at KERN by 12:00 noon at the latest
- Ready for shipping at KERN within two working days, at 12:00 noon
- Return by standard parcel service or express shipping (Costs and processing time on request)
- Additional cost for Express Service, for each test weight, KERN 962-115R
- For Express shipping

Class	Reverification [2]	Price on request
	KERN	
Accuracy class I (precision balances) [1]		
[Max] ≤ 5 kg [1]	950-101R	
[Max] > 5 kg [1]	950-102R	
Accuracy class II (precision balances) [1]		
[Max] ≤ 5 kg [1]	950-116R	
[Max] > 5 kg – 50 kg [1]	950-117R	
[Max] > 50 kg – 350 kg [1]	950-118R	
Accuracy class III-IV [1]		
Bench scales and industrial scales (excl. crane scales)		
[Max] ≤ 5 kg [1]	950-127R	
[Max] > 5 kg – 50 kg [1]	950-128R	
[Max] > 50 kg – 350 kg [1]	950-129R	
[Max] > 350 kg – 1500 kg [1]	950-130R	
[Max] > 1500 kg – 2900 kg [1]	950-131R	
[Max] > 2900 kg – 6000 kg [1]	950-132R	
Crane scales		
[Max] > 50 kg – 350 kg [1]	950-129HR	
[Max] > 350 kg – 1500 kg [1]	950-130HR	
[Max] > 1500 kg – 2900 kg [1]	950-131HR	
[Max] > 2900 kg – 6000 kg [1]	950-132HR	
[Max] > 6000 kg – 12000 kg [1]	950-133HR	

[1] Preparation of reverification of balances, 969-006R

[2] Verification (“reverification”), valid only in Germany



Accredited calibration with calibration certificate for force gauges

The KERN calibration laboratory is at your side when you need an accredited calibration. From the transducer to the full measuring chain, we are happy to take care of traceable calibration of your test equipment for you.

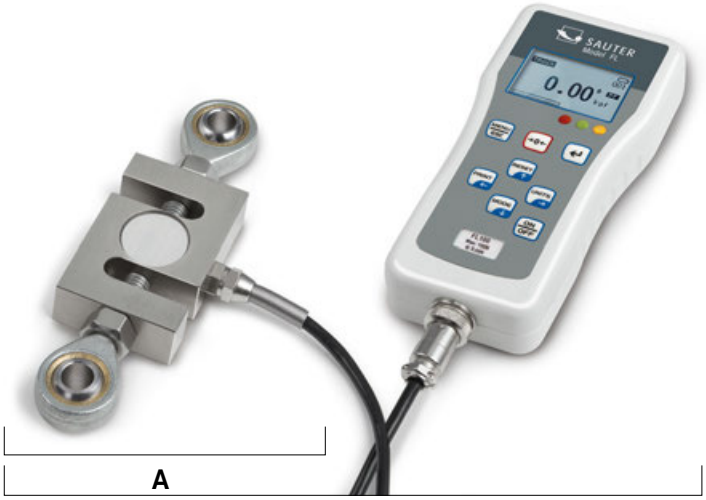
Our accreditation includes the calibration of tensile and pressure force up to 5 kN according to the standards DIN EN ISO 376 and DKD-R 3-3, each with the Newton (N) display unit for a complete measuring chain (situation A) or voltage ratio/transmission coefficient (mV/V, situation B).

Below you will find a comparison of which standard meets which criteria:

Comparison of DIN EN ISO 376 and DKD-R 3-3

	ISO 376	DKD-R 3-3
Standardization	ISO standard (internationally standardized)	Standard of the DKD (Germany)
Measuring equipment	Force transducers and complete measuring chains	Force transducers and complete measuring chains
Area of application	Specifically force gauges for the testing of testing equipment	General force gauges
Number of power stages	8	5
Classification/Assessment	Classification in classes 00; 0,5; 1 and 2	None in standard
Test sequences	Fixed procedure	Sequences A, B, C, D possible Standard is sequence A B, C and D are reduced sequences, relevant previous knowledge is necessary
Summary	Higher-quality calibration, as 8 force levels are calibrated	High-quality calibration, reduced sequences with less effort possible

We can offer you a calibration solution for the following situations:



Situation A:
Separate force transducer,
display unit mV/V

Situation B:
Complete force gauge (N),
consisting of transducer, amplifier and display, display unit N

▸ See also tables, right side

You can find further information on this topic at: www.kern-lab.com


KERN CALIBRATION
KERN & SOHN GmbH
Akkreditiertes Kalibrierlabor seit 1994.
Accredited calibration laboratory since 1994.
Ihr Partner für Kalibrierdienstleistungen, Prüfmittelmanagement und Beratung.
Your partner for calibration services, test equipment management and support.
Mitglied im / member of the
Deutschen Kalibrierdienst
DKD
DAkkS
Kalibrierschein
Calibration Certificate
Sample-2026-01
Kalibrierzeichen
Calibration mark
2026-01
Messwerte (Zugkraft) / Measurement results (tension force)
Messergebnisse (Zugkraft) / Measured values (tension force)

Calibration certificate with accreditation symbol for force-measuring devices (extract).

Prices for accredited recalibration of force gauges and force transducers

Situation A: Force transducer (voltage ratio, in mV/V)*1,2

ISO 376 (8 stages)			DKD-R 3-3 (5 stages, sequence A)		
KERN	**Measuring range**	**Price on request**	**KERN**	**Measuring range**	**Price on request**
Tensile force:					
963-161IVR	≤ 500 N		963-161VR	≤ 500 N	
963-162IVR	≤ 2 kN		963-162VR	≤ 2 kN	
963-163IVR	≤ 5 kN		963-163VR	≤ 5 kN	
Compression force:					
963-261IVR	≤ 500 N		963-261VR	≤ 500 N	
963-262IVR	≤ 2 kN		963-262VR	≤ 2 kN	
963-263IVR	≤ 5 kN		963-263VR	≤ 5 kN	
Tensile and Compression force:					
963-361IVR	≤ 500 N		963-361VR	≤ 500 N	
963-362IVR	≤ 2 kN		963-362VR	≤ 2 kN	
963-363IVR	≤ 5 kN		963-363VR	≤ 5 kN	
969-003R	Preparation for recalibration (cleaning, function test)				

Situation B: Complete force gauge (in N)*2

ISO 376 (8 stages)			DKD-R 3-3 (5 stages, sequence A)		
KERN	**Measuring range**	**Price on request**	**KERN**	**Measuring range**	**Price on request**
Tensile force:					
963-161IR	≤ 500 N		963-161R	≤ 500 N	
963-162IR	≤ 2 kN		963-162R	≤ 2 kN	
963-163IR	≤ 5 kN		963-163R	≤ 5 kN	
Compression force:					
963-261IR	≤ 500 N		963-261R	≤ 500 N	
963-262IR	≤ 2 kN		963-262R	≤ 2 kN	
963-263IR	≤ 5 kN		963-263R	≤ 5 kN	
Tensile and Compression force:					
963-361IR	≤ 500 N		963-361R	≤ 500 N	
963-362IR	≤ 2 kN		963-362R	≤ 2 kN	
963-363IR	≤ 5 kN		963-363R	≤ 5 kN	
969-003R	Preparation for recalibration (cleaning, function test)				

Factory calibration for force

This is not an accredited calibration (no proof of metrological traceability).

Situation A: Force transducer (voltage ratio, in mV/V)*1,2

Situation B: Complete force gauge (in N)*2

KERN	Measuring range	Price on request	KERN	Measuring range	Price on request
Tensile force:					
961-161VR	≤ 500 N		961-161R	≤ 500 N	
961-162VR	≤ 2 kN		961-162R	≤ 2 kN	
961-163VR	≤ 5 kN		961-163R	≤ 5 kN	
961-164VR	≤ 20 kN		961-164R	≤ 20 kN	
961-165VR	≤ 50 kN		961-165R	≤ 50 kN	
961-166VR	≤ 120 kN		961-166R	≤ 120 kN	
961-167VR	≤ 250 kN		961-167R	≤ 250 kN	
Compression force:					
961-261VR	≤ 500 N		961-261R	≤ 500 N	
961-262VR	≤ 2 kN		961-262R	≤ 2 kN	
961-263VR	≤ 5 kN		961-263R	≤ 5 kN	
961-264VR	≤ 20 kN		961-264R	≤ 20 kN	
961-265VR	≤ 50 kN		961-265R	≤ 50 kN	
961-266VR	≤ 120 kN		961-266R	≤ 120 kN	
961-267VR	≤ 250 kN		961-267R	≤ 250 kN	
Tensile and Compression force:					
961-361VR	≤ 500 N		961-361R	≤ 500 N	
961-362VR	≤ 2 kN		961-362R	≤ 2 kN	
961-363VR	≤ 5 kN		961-363R	≤ 5 kN	
961-364VR	≤ 20 kN		961-364R	≤ 20 kN	
961-365VR	≤ 50 kN		961-365R	≤ 50 kN	
961-366VR	≤ 120 kN		961-366R	≤ 120 kN	
961-367VR	≤ 250 kN		961-367R	≤ 250 kN	
969-003R	Preparation for recalibration (cleaning, function test)				

R = Recalibration
For each force gauge without interface or from other manufacturers we charge a surcharge of for the additional effort.

*1 Compatibility with our amplifiers required;
*2 Installation in our measuring equipment required

Factory calibration certificates

As calibration certificates with accreditation symbol cannot be offered for all measuring devices or measurement sizes, or where it is not customary, we then offer factory calibration certificates. This is not an accredited calibration (no proof of metrological traceability). These calibration certificates meet international standards and are particularly suitable as proof of exacting calibration in the monitoring of your checking equipment, for example:

- Mechanical balances (spring balances, etc.)
- Force-measuring devices up to 250 kN
- Measuring devices for layer thickness 0 µm – 2000 µm
- Hardness testing devices in accordance with Leeb tests
- Ultrasonic material thickness testing device 25 mm – 300 mm

We carry out calibrations independent of brand. In order to avoid any unnecessary delays when processing your order, please send us the technical documents and necessary accessories with the checking device. Calibration time 4 working days.


KERN CALIBRATION

KERN & SOHN GmbH

Kalibrierlabor seit 1994.
Calibration laboratory since 1994.

Ihr Partner für Kalibrierdienstleistungen, Prüfmittelmanagement und Beratung.
Your partner for calibration services, test equipment management and support.

Kalibrierschein
Calibration certificate

M8-123-KERN-2026-01

Kalibriergegenstand
Calibration object

Drehmomentschlüssel-Kalibriereinrichtung
Torque wrench calibration device

Max 1 Nm d= 0,0001 Nm

Hersteller
Manufacturer

SAUTER GmbH
Ziegelei 1
72336 Balingen
Deutschland

Typ
Type

DB 1-4

Seriennummer
Serial no.

DB1234567

Inventarnummer
Inventory no.

-

Auftraggeber
Customer

Mustermann GmbH
Musterstr. 1
12345 Musterstadt
Deutschland

Auftragsnummer
Order no.

2026-12345678

Dieser Kalibrierschein dokumentiert die bestimmungsgemäße Messfunktionalität des Kalibriergegenstands, die sich in Einheiten des Internationalen Einheitensystems (SI) ausdrückt und unter Zuhilfenahme von Messhilfsmitteln ermittelt wurde, die sich auf entsprechende nationalen Normale zurückführen lassen.
Für die Einhaltung einer angemessenen Frist zur Wiederholung der Kalibrierung ist der Benutzer verantwortlich.

This calibration certificate documents the intended function of measurement of the calibrated object which is expressed in units of the 'Le Système international d'unités' (SI). The measurement was executed with the aid of measurement utilities which are traceable to national standards.

The user is obliged to have the object recalibrated at appropriate intervals.

Umgebungstemperatur
Environment temperature

23,0 °C

Messergebnisse - **Rechtsdrehmoment**
Measurement results - clockwise torque

Messung Measure#	Referenz-Drehmoment Reference torque	Anzeige Indication	Abweichung[1] Error	Messunsicherheit[2] (k=2, 95%) meas. uncertainty	Toleranz[3] Tolerance	Konformität[4] Conformity
1	0,2 Nm	0,1998 Nm	- 0,0002 Nm	0,0030 Nm	0,0050 Nm	✓
2	0,6 Nm	0,6004 Nm	+ 0,0004 Nm	0,0030 Nm	0,0050 Nm	✓
3	1,0 Nm	1,0004 Nm	+ 0,0004 Nm	0,0030 Nm	0,0050 Nm	✓

Messergebnisse - **Linksdrehmoment**
Measurement results - anticlockwise torque

Messung Measure#	Referenz-Drehmoment Reference torque	Anzeige Indication	Abweichung[1] Error	Messunsicherheit[2] (k=2, 95%) meas. uncertainty	Toleranz[3] Tolerance	Konformität[4] Conformity
1	0,2 Nm	0,2004 Nm	+ 0,0004 Nm	0,0030 Nm	0,0050 Nm	✓
2	0,6 Nm	0,6002 Nm	+ 0,0002 Nm	0,0030 Nm	0,0050 Nm	✓
3	1,0 Nm	0,9998 Nm	- 0,0002 Nm	0,0030 Nm	0,0050 Nm	✓

[1] Es gilt: [Abweichung] = [Anzeige] – [Referenz-Drehmoment] (Sollwert)
If or: [Error] = [Indication] – [Reference torque]

[2] Angegeben ist die erweiterte Messunsicherheit, die sich aus der Standardunsicherheit durch Multiplikation mit dem Erweiterungsfaktor k=2 ergibt. Sie wurde gemäß EA-4/02 M: 2022 in Anlehnung an DKD-R 3-8 unter Annahme von für diesen Gerätetyp typischen Werte für die relevanten Kenngrößen bei zutreffender Belastung (Rundungsfehler, Wiederhol- und Vergleichspräzision, Diff. Kraftverteilung/Hebelarmlänge und Linearfehler des Referenzdrehmoments) ermittelt. Der Wert der Messgröße liegt mit einer Wahrscheinlichkeit von 95% im zugewiesenen Gebrauchsintervall.

Factory calibration certificate for torque wrench test devices (extract from the factory calibration certificate) **Further details on the internet at www.kern-lab.com**

KERN	Measuring device	Measuring range	Price on request
Factory calibration			
961-102KR	Digital dynamometer KERN MAP	≤ 130 kg	
961-110R	Coating thickness	≤ 2000 µm F or N	
961-112R	Coating thickness	≤ 2000 µm FN	
961-113R	Wall thickness (ultra sound)	≤ 300 mm (in stainless steel)	
961-170R	Hardness comparison plate (Shore)	For sets up to 7 plates	
961-131R	Hardness tester (Leeb)	400 – 800 HLD	
961-132R	Hardness comparison plate (Leeb)	Hardness comparison plate (for Leeb durometer)	
961-270R	Hardness (UCI)	200 - 800 HV	
961-150R	Length	≤ 300 mm	
961-190R	Light	≤ 200000 lx	
961-100R	Mechanical balances/ spring balances	≤ 5 kg	
961-101R	Mechanical balances/ spring balances	> 5 – 50 kg	
961-102R	Mechanical balances/ spring balances	> 50 – 350 kg	
961-103R	Mechanical balances/ spring balances	> 350 – 1500 kg	
961-104R	Mechanical balances/ spring balances	> 1500 - 3000 kg	
961-105R	Mechanical balances/ spring balances	> 3000 - 6000 kg	
961-106R	Mechanical balances/ spring balances	> 6000 - 12000 kg	
961-120R	Torque wrench test devices	1 Nm - 200 Nm	
964-305R	Temperature calibration for moisture analyzer*		
961-290R	Refractometers		
Additional services			
962-116R	Express service with 48 hour delivery		
969-003R	Preparation for recalibration (cleaning, function test)		

R = Recalibration
For each force gauge without interface or from other manufacturers we charge a surcharge of for the additional effort.

*For an overview of calibratable instruments and test services for further measuring sizes see www.kern-lab.com

A

Accuracy classes for test 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 calibration certificate with accreditation symbol.

ATEX
Derived from **AT**mosphère **EX**plosibles. (explosive atmosphere). A synonym for EU guidelines, which controls the quality and use of equipment in hazardous industrial environments, where there is explosion danger, e.g. by handling of flammable substances, which are present in high concentrations in the form of gas, mist, vapour or dust. Therefore see also directives 2014/34/EU as well as 1999/92/EU.

B

Balances which are verified/ not approved for verification
Metrologically almost identical. For verified balances certain details are regulated by law, e.g. software changes and additional markings.

C

CAL
Adjusting the balance is triggered with an external test weight by using the CAL key on the key pad or on the touch display of the display device or the CAL menu option. This will guarantee the consistent high accuracy of the balance.

Calibration of measurement equipment
Determination of the precision of a measurement value without intervention in the measurement system. Example: to check a balance you load a ▸ ***test weight*** upon it. The term “Calibrating” was formerly also used for ▸ ***Adjusting.***

Calibration certificate with accreditation symbol


See product group 18 “Calibration service”

Calibration or verification


DAkkS accredited Calibration is possible for every balance in perfect condition. DAkkS accredited 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 ▸ ***Calibration certificate with accreditation symbol*** 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 with accreditation symbol***

See product group 18 “Calibration service”

Data interface


To connect the balance to a printer, PC, network or a second balance. Typical interfaces are, for example, RS-232, RS-485, USB, Bluetooth, LAN, Digital I/O, DUAL, LAN etc. The interface parameters can be set using the balance. The interfaces available are stated in the model description.

Density determination
One of the main areas of application for laboratory balances is determining densities, e.g. determining the specific weight of liquids and solids. To do this you will need a highly accurate precision or analytical balance and a density set. It is particularly convenient if the balance can calculate and display the density right away.
It has become apparent that by means of weigting when in the process of determining the density of liquids and solids according to the buoyancy method particularly accurate results can be obtained (Archimedes’ principle).

a) Density determination of liquids: By means of measuring the buoyancy with a glass plummet with known volume immersed in the liquid to be measured

b) Density determination of solid bodies:

$$\rho = \frac{A}{A-B} \cdot \rho_0$$

ρ = Density of sample
A = Weight of sample in air
B = Weight of sample in auxiliary liquid
ρ_0 = Density of the auxiliary liquid

Applications:

a) Pre-packaged goods control, whenever a product is sold according to its volume [cm³]. This volume is calculated with weight [g] : density [g/cm³].

b) Materials analysis

DMS = Strain gauge

An electrical resistor strip that is glued to an elastic deforming body made of aluminium. As the strain gauge is mechanically deformed its resistance value changes, allowing the measured value to be calculated.

Draught shield

Required for balances with ▸ ***Readout*** d ≤ 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.

K

KCP

KCP is an universal communication protocol between laboratory balances, industrial scales or other measuring instruments and digital devices, such as a computer, server or process management system. Due to the universal protocol structure, one measuring instrument can be replaced by another without adapting the communication interface.

L

Linearity/Precision

Greatest deviation of the weight displayed of a balance with regard to the value of the respective test weight in terms of plus and minus across the whole weighing range.

M

Minimum load [Min]

Lower limit of the verifiable weighing range. Is marked on the verification mark. The function of the balance is also given below the minimum load.

Minimum sample weight

Indicates the smallest weight which can be determined, depending on the process accuracy required.

Multi-division balance/ Multi-range balance

On multi-division balances, the weighing range is subdivided several times, each with a different readability. The readability [d] changes automatically with increasing and decreasing load. Multi-rasnge balances have several weighing ranges with different maximum loads and different numerical increments. Switching takes effect automatically when the load increases; switching back to the lower weighing range only takes effect when the scale has been completely unloaded.

N

Newton

Newton (N) is the unit for physical force values. A Newton is the force required to accelerate a 1 kg mass at rest to a speed of 1 m/s within one second.

Notified body

Neutral and independent, predominantly government bodies, which are formally appointed by the EC. They are engaged in the field of verification for conformity evaluations (initial verification) and type-approval test within the scope of type approvals.

O

Optimisation of reference weight (when piece counting)

See product group 9 "Counting balances/Counting systems"

P

Percentage determination

Example: Reference weight prior to drying: 50 g = balance display 100 %. After drying 40 g = balance display 80 % absolute (dry mass) or 20 % relative (humidity).

Permissible ambient temperature

Measuring errors are possible if you use the balances outside the permitted specified ambient temperature range. With verified balances this is stated on the identification plate.

PLU (Price Look Up)

This refers to a data memory in price-computing retail scales for the base price of sales items.

Pre-packaging legislation (FPVO)

Ensures that pre-packed goods are filled correctly, for example, in food industry. The Weights and Measures Act governs the permissible weight and volume tolerances.

PRE-TARE

Entering and saving a tare weight (e.g. container weight) through weighing or manual entry using the balance keypad before the actual weighing process. When you subsequently place the tare container on the balance, the balance will show zero immediately – saves time. Particularly useful e.g. for checking fill levels

Proof of compatibility

This documents the verification compatibility for combinations of weighing modules such as display devices, load cells and connecting elements.

For a more detailed version of the glossary, please refer to the website.

R

Readout [d]
Smallest readable weight increment on a digital display.

Recalibration
Periodic checking of the precision of measurement equipment/checking equipment (e.g. balances/weights) to control accuracy,
▸ ***Control of measurement equipment***

Reference weight (when piece counting)
See product group 9 "Counting balances/Counting systems"

Reproducibility (standard deviation)
Sequenced measure of conformity in repeated weighing (e.g. balances) subject to the same conditions. Mostly 1 [d] or less. Quality feature.

Resolution of a balance
The resolution is calculated from the weighing range [Max] divided by the readout [d], e. g. [Max] 420 g : [d] 0.001 g = 420,000 points. The resolution is a quality feature – the higher, the better.

S

SC-TECH = Single-Cell Technology
▸ ***FORCE.*** The load cell consists of a single aluminium block, which gives a very high measurement quality.

Semi-micro balance
Analytical balance with a readout [d] = 0,01 mg

Smallest part weight when counting
The smallest piece weight, which a balance can accept for piece counting. For the relevant model, enter "g/piece" in the product data table.

T

T-FORK = Tuning fork principle
A resonating body (like a tuning fork) is electromagnetically excited, causing it to oscillate. The measured value is calculated via the change in frequency corresponding to the load of the weight being measured on the scale.

Taring, automatic
▸ ***PRE-TARE***

Taring, subtractive
The available weighing range of a balance is reduced by the value of the tare load. Example: weighing range of a balance Max 6000 g, Tare (= container) 470 g, available weighing range 5530 g.

Test weight, external (previously calibration weight)
For adjusting or checking the balance accuracy
▸ ***Adjusting the weighing range.***
The external test weight can be calibrated according to DAkkS 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 with accreditation symbol.*** It depends on various factors, both, internal and external. Uncertainty of measurement increases by a rising charge of the balance, *see product group 18 "Calibration Service"*

V

Verification
Verification, in accordance with the new terminology "Conformity assessment".
Only balances with ▸ ***EC type approval*** can be evaluated for conformity. These balances have an identification plate with the metrology marking **M**. The state requires assessment for conformity and this assessment serves as consumer protection.
According to EU directive 2014/31/EEC balances must be officially assessed for conformity (calibrated) if they are used as follows:
a) in commercial trade when the price of a commodity is determined by weighing.
b) in the manufacture of pharmaceuticals in pharmacies and analysis in pharmaceutical and medical laboratories.
c) for official purposes.
d) in the production of prepackaging.
e) in medical applications.
Every balance is tested by KERN and marked with a conformity mark. Its accuracy within the framework of permissible tolerances is thereby confirmed. EU verification applies to all member states of the EU.

Verification classes of balances
Class I – Analytical balance (precision balance),
Class II – precision balance,
Class III – industrial scale (commercial scale).

Verification of a balance with adjusting program
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
The above restrictions in respect of the location of use do not apply, because the automatic internal adjusting works also after verification, therefore it is not sealed. In this case, verification does not depend on the location.

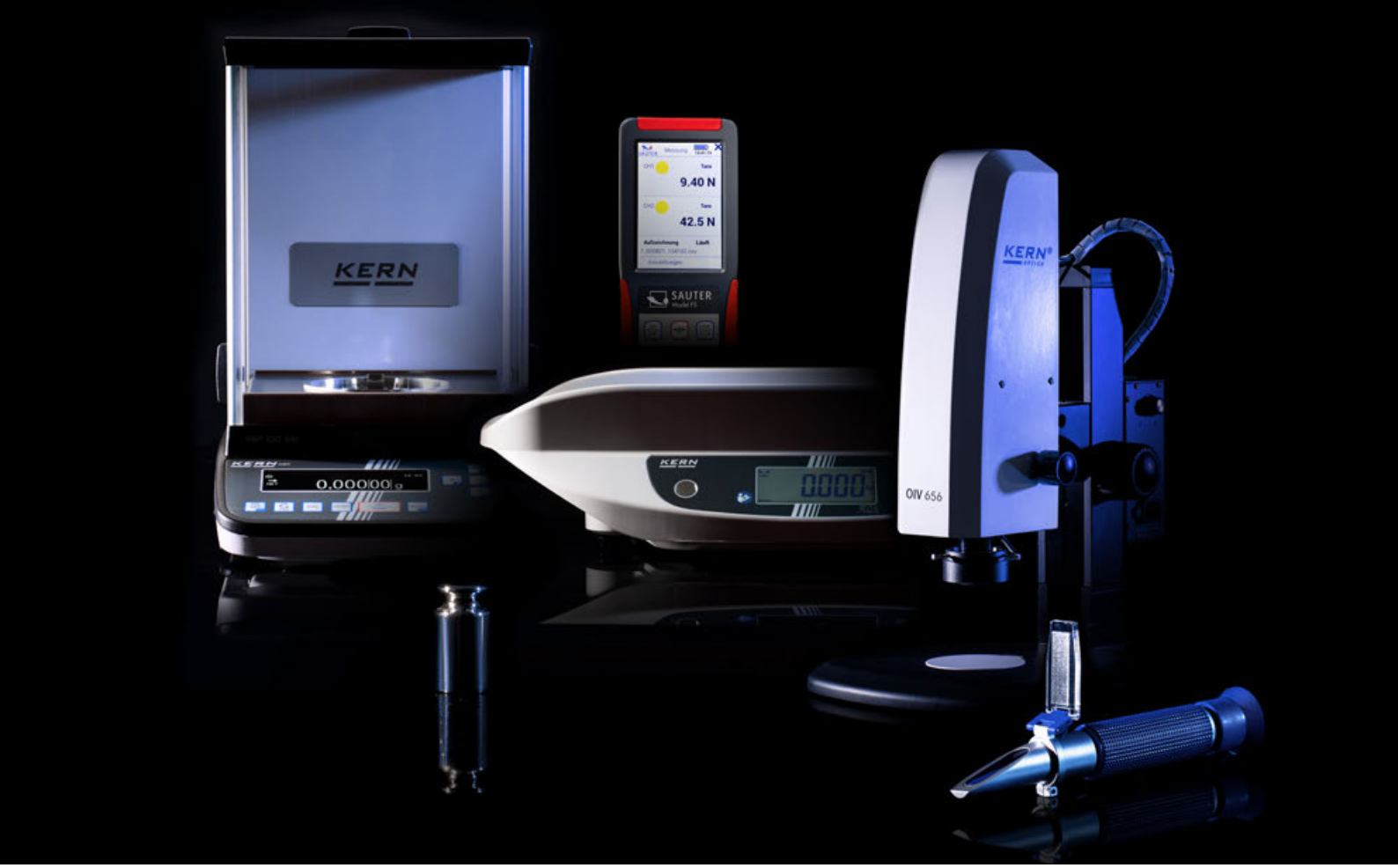
Verification validity for balances
Generally 2 years for all verification classes, for control balances generally 1 year, after expiry the balance has to be re-verified.

Verification value [e]
Measure of the verification tolerance, depending on balance, mostly between 1 [d] and 10 [d] ▸ ***Readout***

W

Weighing range [Max]
is the working range of the balance. The balance can be loaded up to the specified upper limit.

COMMITMENT TO QUALITY AT AN INTERNATIONAL LEVEL



Partners with experience and competence are an essential factor for process-oriented processes in professional weighing and measuring technology. With KERN you have a service partner by your side who has a state-of-the-art test service with an accredited calibration laboratory. Our colleagues are available both for technical questions and also individual solutions and will be glad to help you.

The following accreditations and certificates represent our commitment to quality: Certified QM system DIN EN ISO 9001, DAkkS Accreditation DIN EN ISO/IEC 17025, conformity evaluation in accordance with NAWID: 2014/31/EU, Medical certifications DIN EN ISO 13485 and 93/42/EEC.

You can also find further information online, please see www.kern-lab.com

ilac-MRA

DAkkS Deutsche Akkreditierungsstelle D-K-19408-01-00

Accredited calibrations according to DIN EN ISO/IEC 17025:2018 norms for balances, weights, force, volumes of solid bodies, densities of solid bodies, temperature, humidity

Zertifiziertes DQS MED Managementsystem

CONFORMITY ASSESSMENT ACCORDING TO NAWID: 2014/31/EU

The logo used is a registered trademark of Deutsche Akkreditierungsstelle (DAkkS).

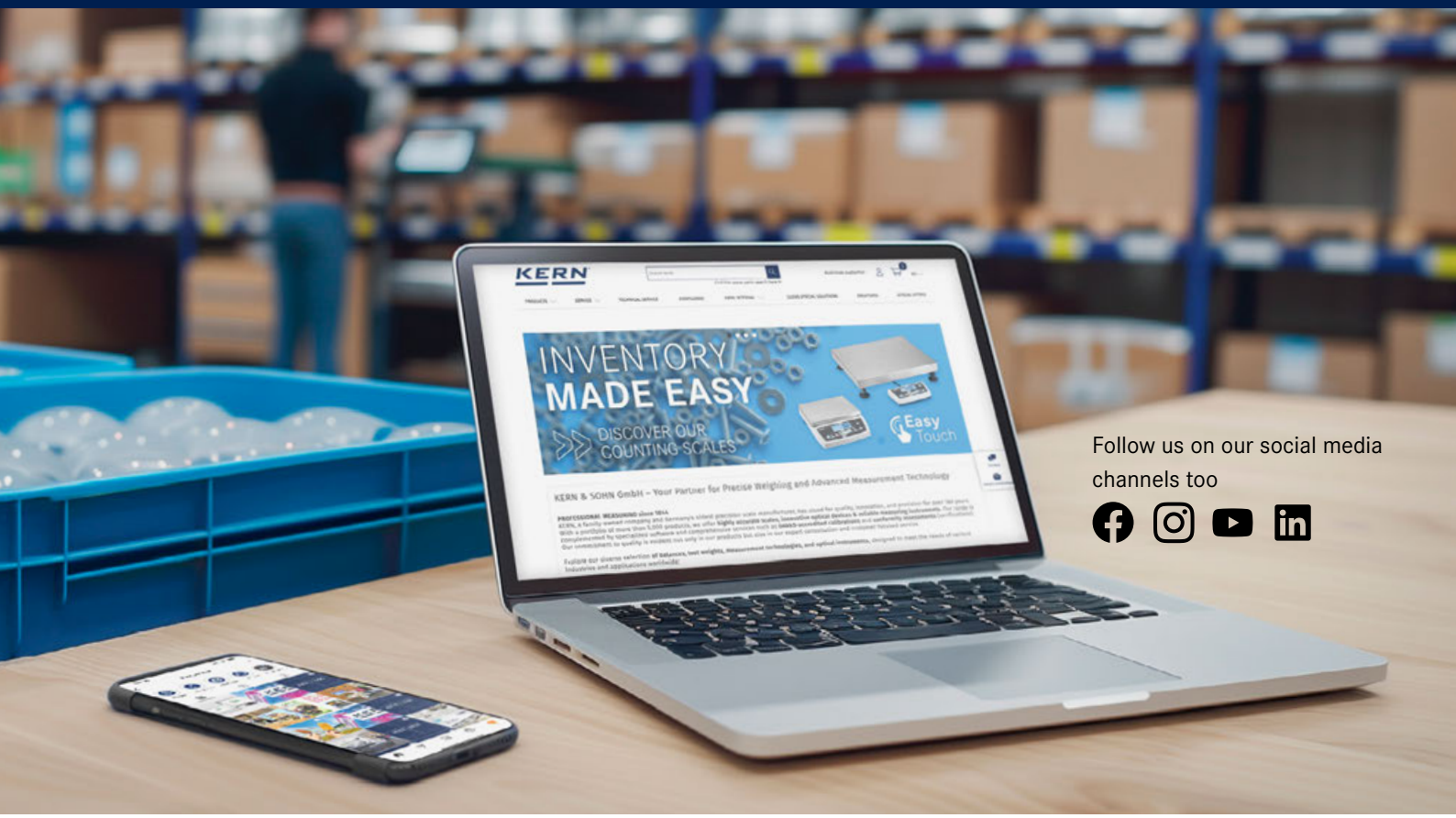
The oldest Precision Balance Factory in Germany

KERN & SOHN GmbH
Balances, Test Weights, Microscopes,
Accredited Calibration Laboratory

Ziegelei 1
72336 Balingen
Germany
Tel. +49 7433 9933-0
info@kern-sohn.com
www.kern-sohn.com

Discover the multifaceted World of Balances, Microscopes and Measuring Technology from KERN online: www.kern-sohn.com

- → Full KERN & SAUTER Product Range
- → Convenient 24/7 Ordering
- → Selection of more than 5,000 Items across Weighing and Measuring Technology, Optical Instruments as well as Accessories and Services
- → Extensive Information and useful Download Options
- → Technical Product Data Sheets
- → Operating Instructions
- → Descriptive Image and Video Material
- → Useful KERN Services
- → Technical Glossary
- → KERN Dealer Portal
- → Practical Filter and Search Functions



CONFORMITY ASSESSMENT ACCORDING TO NAWID: 2014/31/EU

German Excellence Group
Member

MITTELSTAND GLOBAL
HEALTH MADE IN GERMANY