

SCALES AND MEASURING INSTRUMENTS FOR THE INDUSTRY

Scales, microscopes and refractometers for industry, production, trade and quality assurance



KERN Pictograms



Adjusting program CAL:

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



Easy Touch:

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



Memory:

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



Data interface RS-232:

To connect the balance to a printer, PC or network



RS-485 data interface:

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



USB data interface:

Balances: To connect the balance to a printer, PC or other peripherals.

Microscopes: For direct transmitting of the picture to a PC



Bluetooth* data interface:

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



WLAN data interface:

Balances: To transfer data from the balance to a printer, PC or other peripherals.

Microscopes: For transmitting of the picture to a mobile display device



Analogue interface:

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



Analog output:

for output of an electrical signal depending on the load (e.g. voltage 0 V - 10 V or current 4 mA - 20 mA)



Interface for second balance:

For direct connection of a second balance



Network interface:

For connecting the scale to an Ethernet network



KERN Communication Protocol (KCP):

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



GLP/ISO log:

With weight, date and time. Only with KERN printers.



Piece counting:

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



Totalising level A:

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



Percentage determination:

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



Weighing units:

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



Weighing with tolerance range:

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



Hold function:

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



Protection against dust and water splashes IPxx:

The type of protection is shown in the pictogram.



Battery operation:

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



Rechargeable battery pack:

Rechargeable set



Universal mains adapter:

with universal input and optional input socket adapters for

A) EU, CH

B) EU, CH, GB, USA

C) EU, CH, GB, USA, AUS



Mains adapter:

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



230 V

Power supply:

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



Weighing principle: Strain gauges:

Electrical resistor on an elastic deforming body



360° rotatable microscope head



Binocular Microscope:

For the inspection with both eyes



Trinocular Microscope:

For the inspection with both eyes and the additional option for the connection of a camera



LED illumination:

Cold, energy saving and especially long-life illumination



Incident illumination:

For non-transparent objects



Transmitting illumination:

For transparent objects



Zoom magnification:

For stereomicroscopes



SD card:

For data storage



HDMI digital camera:

For direct transmitting of the picture to a display device



PC software:

To transfer the measurements from the device to a PC.



Automatic temperature compesation:

For measurements between 10 °C and 30 °C



Verification possible:

The time required for verification is specified in the pictogram



DAkkS calibration possible:

The time required for DAkkS calibration is shown in days in the pictogram



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

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Your advantages

fast

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

reliable

- Up to 3 years warranty
- Precision in weighing technology for more than 175 years

competent

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

versatile

- One-stop shopping: from bench scales through to floor scales – everything from one supplier
- Find the product you want at www.kern-sohn.com



Order hotline

+49 7433 9933-0



Service hotline

+49 7433 9933-199



Calibration hotline

+49 7433 9933-196



Online Shop

www.kern-sohn.com



E-mail order

info@kern-sohn.com

www.kern-sohn.com

Information on current product availability, product data sheets, user instructions, useful knowledge, technical glossary, images and much for you to download, practical topic areas, which will guide you to the right product in your industry as well as a clever test weight and balance search engine.

Sales conditions

- The prices are valid from 01.01.2019 31.12.2019. In Europe, all prices do not include the applicable V.A.T.
- Delivery conditions:
 We supply ex works from Balingen, i. e. the transport costs are invoiced separately.
 Delivery is usually via parcel service
- Sale or return: within 14 days of purchase
- You can find our full terms and conditions on the internet at www.kern-sohn.com/en/kern/ general_terms.html

We weigh almost everything ... and that's not all!



Balances & Test service catalogue



Medical scales catalogue



Microscopes & refractometers catalogue



SAUTER measuring equipment catalogue



DAkkS calibration service brochure



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KERN scales - not scared of water at all!

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

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



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Scales for the food industry

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Bench scales/Counting scales







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

Features

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

Technical data

- Large backlit LCD display, digit height 24 mm
- · Dimensions weighing surface W×D 294×225 mm
- · Overall dimensions W×D×H 320×330×125 mm
- · Net weight approx. 3,0 kg
- · Permissible ambient temperature GAB-N: 0 °C/40 °C GAB-DNM: -10 °C/40 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN CFS-A02S05, € 40,-
- · Rechargeable battery pack internal, operating time up to 90 h without backlight, charging time approx. 12 h, KERN GAB-A04, € 40,-

- · WiFi interface for wireless connection of the balance to networks and WiFi capable devices, such as tablets, laptops or smartphones, must be ordered at purchase, please ask for delivery time, KERN CFS-A05, € 120,-
- II Signal lamp for visual support of weighing with tolerance range, KERN CFS-A03, € 250,-
- Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp or barcode reader and printer, KERN CFS-A04, € 35,-
- · Tare pan made of stainless steel, ideal for weighing loose small parts, fruit, vegetables etc., W×D×H 370×240×20 mm, KERN RFS-A02, € 55,-
- · Further details, plenty of further accessories and suitable printers see website

Application examples

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

Note: Official verification duty for commercial trade





































FACTORY



Model	Weighing	Readability	Verification	Minimal load	Smallest part	Price		(Option	
	capacity		value		weight	excl. of VAT	Verifica	tion	DAkkS Calibr. Ce	ertificate
	[Max]	[d]	[e]	[Min]	[Normal]	ex works	MIII	€	DAkkS	
KERN	kg	g	g	g	g/piece	€	KERN	€	KERN	€
GAB 6K0.05N	6	0,05	-	-	0,5	295,- 🕛	-	-	963-128	88,-
GAB 12K0.1N	12	0,1	-	-	1	295,- 🕛	-	-	963-128	88,-
GAB 30K0.2N	30	0,2	-	-	2	295,- 🕛	-	-	963-128	88,-

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

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

GAB 6K1DNM	3 6	1 2	1 2	20	2	225,- 🕛	965-228	70,-	963-128	88,-
GAB 15K2DNM	6 15	2 5	2 5	40	5	225,- 🕛	965-228	70,-	963-128	88,-
GAB 30K5DNM	15 30	5 10	5 10	100	10	225,- 🕛	965-228	70,-	963-128	88,-









Stainless steel balance with special protection against humidity, also with EC-Type Approval [M]

Features

- III NEW: Innovative weighing with tolerance range (Checkweighing): The colour of the display changes depending on the weight (too light/ok/too heavy) and is an aid to help with portioning, dosing and grading
- · Stainless steel design of the housing and weighing plate. Its smooth surfaces make it simple to clean
- · High mobility: thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations (kitchen, sales office, cafeteria, Food industry-Laboratory etc.)
- · Your support in a HACCP-compliant quality system
- · Secure and non-slip positioning with rubber feet
- · Increased protection against humidity through waterproof silicone sealing of the load cell, electronics and soldering joints

· Check the weighing capacity which is in use at the press of a button (net/gross weight)

Technical data

- · Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, Stainless steel M W×D 175×165 mm, see larger picture **B** W×D 252×200 mm
- · Overall dimensions W×D×H M 175×235×62 mm. **B** 220×305×80 mm
- KERN FOB-LM: Optional battery operation, 4×1.5 V AA, standard, operating time up to 48 h, AUTO-OFF function to preserve the battery
- Net weight A approx. 2,0 kg, B approx. 3,8 kg
- Permissible ambient temperature A KERN FOB: 5 °C/35 °C, B KERN FOB-LM: -10 °C/40 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN FOB-A13S05, € 40,-
- KERN FOB: Rechargeable battery pack internal, operating time up to 24 h without backlight, charging time approx. 8 h, KERN FOB-A07, € 45,-
- · Mains adapter external, not included, can be reordered, KERN FOB-A01, € 35,-
- 2 Tare pan made of stainless steel, ideal for weighing loose small parts, fruit, vegetables etc., W×D×H 370×240×20 mm, KERN RFS-A02, € 55,-

STANDARD





















Model	Weighing	Readability	Verification	Minimal load	Weighing plate	Price		(Option	
	capacity		value			excl. of VAT	Verifica	tion	DAkkS Calibr. Ce	rtificate
	[Max]	[d]	[e]	[Min]		ex works	MIII		DAkkS	
KERN	kg	g	g	g		€	KERN	€	KERN	€
FOB 1.5K0.5	1,5	0,5	-	-	Α	175,-	-	-	963-127	72,-
FOB 3K1	3	1	-	-	Α	180,-	-	-	963-127	72,-
FOB 6K2	6	2	-	-	Α	175,-	-	-	963-128	88,-

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

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FOB 1K-4LM	1,5	0,5	0,5	10	В	265,-	965-227	55,-	963-127	72,-			
FOB 3K-3LM	3	1	1	20	В	265,-	965-227	55,-	963-127	72,-			
FOB 6K-3LM	6	2	2	10	В	265,-	965-228	70,-	963-128	88,-			
FOB 10K-3LM	15	5	5	100	В	265,-	965-228	70,-	963-128	88,-			







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

Features

- · Memory (PLU) for 100 items with additional text, reference weight and tare weight, e.g. of a container
- Precise counting: The automatic reference weight optimisation of reference weight gradually improves the average piece weight
- · Programmable using numerical key pad:
- required reference quantity
- known reference weight
- Three displays for weight display (verifiable), reference weight, total pieces
- · Weighing with tolerance range (checkweighing): a visual and audible signal helps with portioning, dispensing or grading
- · Fill-to-target function Programmable target quantity or target weight. 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
- · 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 ■ Ø 80 mm
- **B** W×D 295×225 mm
- W×D 295×225 mm
- Overall dimensions W×D×H A 320×350×180 mm (incl. draught shield) B 320×350×110 mm
- 365×250×125 mm
- Permissible ambient temperature 0 °C/40 °C

Accessories

- Protective working cover, standard for models with weighing plate size A, B, scope of delivery: 5 items, KERN CFS-A02S05, € 40,-
- · Rechargeable battery pack internal, operating time up to 70 h without backlight, charging time approx. 14 h, KERN GAB-A04, € 40,-
- Signal lamp for visual support of weighing with tolerance range, KERN CFS-A03, € 250,-
- Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp or barcode reader and printer, KERN CFS-A04, € 35,-
- · Further details, plenty of further accessories and suitable printers see website



























Model	Weighing	Readability	Smallest part	Counting	Net weight	Weighing plate	Price	Option	
	capacity		weight	resolution			excl. of VAT	DAkkS Calibr. Ce	ertificate
	[Max]	[d]	[Normal]		approx.		ex works	DAkkS	
KERN	kg	g	g/piece	Points	kg		€	KERN	€
CFS 300-3	0,3	0,001	0,05	60.000	2,6	A	360,-	963-127	72,-
CFS 3K-5	3	0,01	0,5	60.000	3,4	В	310,-	963-127	72,-
CFS 6K0.1	6	0,1	1	60.000	3,2	В	270,-	963-128	88,-
CFS 15K0.2	15	0,2	2	75.000	3,4	В	270,-	963-128	88,-
CFS 30K0.5	30	0,5	5	60.000	3,4	В	270,-	963-128	88,-
CFS 50K-3	50	1	10	50.000	4,4	C	295,- 🕛	963-128	88,-



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

Features

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

Reference scale KERN CFS

- This professional counting scale, which can also be used as a stand-alone scale, meets the highest demands for accuracy, weighing 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

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

- Precise counting: The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Protective working cover included with delivery
- Quantity scale KERN KFP-V20 IP65, KFP-V20 IP67, KFU-V20
- The high-accuracy quantity counting takes place on the weighing platform (= weighing bridge) KERN CCS. In this way even the smallest of parts can be counted in large volumes

Technical data

Reference scale KERN CFS

- Overall dimensions W×D×H 320×350×180 mm
- Dimensions weighing surface, stainless steel CFS 300-3: \emptyset 80 mm
- CFS 3K-5, CFS 6K0.1: W×D 300×225 mm
 Net weight approx. 2,6 kg
- Connection cable approx.
- A-E 2,5 m
- **E**-**H** 5 m

Quantity platform KERN KFP-V20 IP65

- Weighing plate dimensions W×D×H, stainless steel
- A 230×230×110 mm
- **B** 300×240×110 mm
- @ 400×300×125 mm
- **□** 500×400×137 mm
- **■** 650×500×135 mm

Quantity weighing bridge KERN KFP-V20 IP67

- Weighing plate dimensions W×D×H, Lacquered steel
 - 1000×1000×80 mm
 - **■** 1500×1250×80 mm

Quantity pallet scale KERN KFU-V20

- Weighing plate dimensions W×D×H, Lacquered steel

 Output
 Description
 - **■** 840×1300×90 mm

Accessories

 Further details, plenty of further accessories and suitable printers see website

NDARD											OPTION	
. EXT	MEMORY	RS 232	□↔□ DUAL	PCS	SUM	-√+ ③ ③) TOL	MULTI	DMS	4 DAYS	5 DAYS with [Max]>	ACCU	DAkkS +3 DAYS

Model	Weighing capacity	Readability	Weighing	Weighing capacity	Readability	Counting	Smallest part	Price	Option	
	Quantity scale	Quantity scale	plate	Reference scale	Reference scale	resolution	weight	excl. of VAT	DAkkS Calibr. Ce	rtificate
	[Max]	[d]		[Max]	[d]		[Normal]	ex works	DAkkS	
KERN	kg	g		g	g	Points	g/piece	€	KERN	€
CCS 6K-6	6	0,2	Α	300	0,001	1.200.000	0,05	630,- 🕛	962-128-127	145,-
CCS 10K-6	15	0,5	В	300	0,001	3.000.000	0,05	660,- 🕛	962-128-127	145,-
CCS 30K0.01.	30	1	С	3000	0,01	600.000	0,5	540,- 🕛	962-128-127	145,-
CCS 30K0.1.	30	1	C	6000	0,1	300.000	1	490,- 🕛	962-128-128	175,-
CCS 60K0.01.	60	2	C	3000	0,01	1.200.000	0,5	540,- 🕛	962-129-127	160,-
CCS 60K0.01L.	60	2	D	3000	0,01	1.200.000	0,5	620,- 🕛	962-129-127	160,-
CCS 60K0.1.	60	2	C	6000	0,1	600.000	1	495,- 🕛	962-129-128	175,-
CCS 60K0.1L.	60	2	D	6000	0,1	600.000	1	570,- 🕛	962-129-128	175,-
CCS 150K0.01	150	5	D	3000	0,01	3.000.000	0,5	650,- 🕛	962-129-127	160,-
CCS 150K0.01L	150	5	E	3000	0,01	3.000.000	0,5	860,- 🕛	962-129-127	160,-
CCS 150K0.1.	150	5	D	6000	0,1	1.500.000	1	540,- 🕛	962-129-128	175,-
CCS 150K0.1L	150	5	E	6000	0,1	1.500.000	1	820,- 🕛	962-129-128	175,-
CCS 300K0.01	300	10	Е	3000	0,01	6.000.000	0,5	860,- 🕛	962-129-127	160,-
CCS 300K0.1	300	10	Е	6000	0,1	3.000.000	1	780,- 🕛	962-129-128	175,-
CCS 600K-2	600	200	F	3000	0,01	12.000.000	0,5	1540,- 🕛	962-130-127	237,-
CCS 600K-2U	600	200	Н	3000	0,01	12.000.000	0,5	1490,- 🕛	962-130-127	237,-
CCS 1T-1L	1500	500	G	6000	0,1	15.000.000	1	1880,- 🕛	962-130-128	253,-
CCS 1T-1U	1500	500	Н	6000	0,1	15.000.000	1	1430,- 🕛	962-130-128	253,-
CCS 3T-1	3000	1000	G	6000	0,1	30.000.000	1	1890,- 😃	962-132-128	528,-



Platform scales







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

Features

- · High mobility: thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations
- · Wall mount for display device, standard
- Hold function: When the weighing conditions are unstable, a stable weight is calculated determining an average value
- · Protective working cover over the display device, included with delivery

Technical data

- · Large LCD display, digit height 25 mm
- · Weighing plate dimensions, steel, painted $W \times D \times H$
- 305×315×55 mm
- **■** 550×550×57 mm, see larger picture @ 950×500×55 mm
- Dimensions of display device W×D×H 235×114×51 mm
- Optional battery operation, 4×1.5 V AA not included, operating time up to 100 h
- Permissible ambient temperature 5 °C/35 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN EOB-A02S05, € 40,-
- Stand to elevate display device, for models with weighing plate size A, height of stand approx. 480 mm, KERN EOB-A01N, € 50,-
- · Stand to elevate display device, height of stand approx. 950 mm, KERN EOB-A02B, € 70,-
- · External universal mains adapter, with universal input and optional input socket adapters for EU, GB, USA, KERN YKA-16, € 40,-















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Model	Weighing	Readability	Reproducibility	Weighing plate	Net weight	Cable length	Price	Option	
	capacity						excl. of VAT	DAkkS Calibr. Ce	ertificate
	[Max]	[d]			approx.	approx.	ex works	DAkkS	
KERN	kg	g	g		kg	m	€	KERN	€
EOE 10K-3	15	5	5	Α	4,0	1,8	135,-	963-128	88,-
EOE 30K-2	35	10	10	Α	3,8	1,8	135,-	963-128	88,-
EOE 60K-2	60	20	20	А	3,8	1,8	135,-	963-129	105,-
EOE 60K-2L	60	20	20	В	13	2,7	270,-	963-129	105,-
EOE 100K-2	150	50	50	A	3,8	1,8	135,-	963-129	105,-
EOE 150K50L	150	50	50	В	13	2,7	270,-	963-129	105,-
EOE 150K50XL	150	50	50	С	18	2,7	310,-	963-129	105,-
EOE 300K100	300	100	100	Α	3,6	1,8	135,-	963-129	105,-
EOE 300K100L	300	100	100	В	13	2,7	265,-	963-129	105,-
EOE 300K100XL	300	100	100	C	18	2,7	310,-	963-129	105,-



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



Weighing instead of counting!

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



Practical Flip/Flop display device: flexible positioning e.g. free-standing or screwed to the wall (optional). By rotating the upper housing shell you can determine the angle of the display as well as the cable outlet.

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







Features

- · High mobility: thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (laboratory, production, quality control, commissioning etc.)
- II Platform: weighing plate stainless steel, painted steel base, silicone-coated aluminium load cell, protection against dust and water splashes IP65. Level indicator and levelling feet for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- · Weighing with tolerance range (checkweighing): a visual and audible signal helps with portioning, dispensing or grading
- Hold function: When the weighing conditions are unstable, a stable weight is calculated determining an average value
- Benchtop stand incl. wall mount for display device as standard
- · Protective working cover included with delivery

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

Technical data

- · Large backlit LCD display, digit height 24 mm
- · Weighing plate dimensions W×D×H
- A 300×300×110 mm
- **B** 500×400×120 mm, see larger picture
- @ 600×500×150 mm
- 950×500×60 mm
- Dimensions of display device W×D×H 268×115×80 mm
- Permissible ambient temperature -10 °C/40 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN EOC-A01S05, € 40,-
- · Internal rechargable battery pack, operating time up to 43 h without backlight, charging time approx. 3 h, KERN KFB-A01, € 35,-
- · Stand to elevate display device, height of stand approx. 330 mm, KERN EOC-A05, € 60,-
- I Mount to fasten the display device to the platform, KERN EOC-A03, € 30,-
- Benchtop stand incl. wall mount for display device, Benchtop stand incl. wall mount for display device, KERN EOC-A04, € 30,-
- · Conversion of the display device, to move the cable outlet to the front of the display device, ideal e.g. for subsequent wall installation of the display device (standard configuration ex works: rear outlet), Factory Option, delivery time + 2 working days, KERN KIB-M01, € 95,-































Model	Weighing	Readability	Smallest part	Cable length	Net weight	Weighing plate	Price	Option	
	capacity		weight					DAkkS Calibr. Ce	rtificate
	[Max]	[d]	[Normal]	approx.	approx.		ex works	DAkkS	
KERN	kg	g	g/piece	m	kg		€	KERN	€
EOC 6K-3	3 6	1 2	2,5	3	6	Α	270,- 🔱	963-128	88,-
EOC 10K-3	6 12	2 5	5	3	7	Α	270,- 🔱	963-128	88,-
EOC 30K-3	15 35	5 10	10	3	6	Α	270,- 🔱	963-128	88,-
EOC 30K-3L	15 35	5 10	10	3	9	В	330,- 🕛	963-128	88,-
EOC 60K-2	30 60	10 20	20	3	6	Α	280,- 🕛	963-129	105,-
EOC 60K-2L	30 60	10 20	20	3	9	В	330,- 🕛	963-129	105,-
EOC 100K-2	60 150	20 50	50	3	6	А	280,- 🕛	963-129	105,-
EOC 100K-2L	60 150	20 50	50	3	9	В	330,- 🕛	963-129	105,-
EOC 100K-2XL	60 150	20 50	50	3	19	С	470,- 🕛	963-129	105,-
EOC 100K-2XXL	60 150	20 50	100	0,7 - 2,7	26	D	490,- 🕛	963-129	105,-
EOC 300K-2	150 300	50 100	100	3	9	В	330,- 🕛	963-129	105,-
EOC 300K-2L	150 300	50 100	100	3	19	C	470,- 🕛	963-129	105,-
EOC 6K-4A	6	0,5	2,5	3	6	А	290,- 🕛	963-128	88,-
EOC 10K-3A	12	1	5	3	7	А	290,- 🕛	963-128	88,-
EOC 20K-3A	24	2	10	3	6	Α	290,- 🕛	963-128	88,-
EOC 60K-3A	60	5	20	3	6	В	290,- 🕛	963-129	105,-
EOC 100K-2A	120	10	50	3	9	C	330,- 🕛	963-129	105,-
		nge balance switch	nes automatically	to the next larges	t weighing capaci		ibility [d]		
EOC 10K-4	6 15	0,2 0,5	5	3	7	А	310,- 🕛	963-128	88,-
EOC 30K-4	15 35	0,5 1	10	3	9	В	340,- 🕛	963-128	88,-
EOC 60K-3	30 60	1 2	20	3	6	А	310,-	963-129	105,-
EOC 60K-3L	30 60	1 2	20	3	9	В	340,- 🕛	963-129	105,-
EOC 100K-3	60 150	2 5	50	3	7	А	310,- 🕛	963-129	105,-
EOC 100K-3L	60 150	2 5	50	3	9	В	340,- 🕛	963-129	105,-
EOC 300K-3	150 300	5 10	100	3	9	В	340,- 🕛	963-129	105,-
Price reduction									



High-resolution industrial scale in heavy version with EC type approval [M], now also up to [Max] 600 kg

Features

- Tough industry standard suitable for use in harsh industrial applications
- Il Platform: weighing plate stainless steel, painted steel base, silicone-coated aluminium load cell, protection against dust and water splashes IP65
- Benchtop stand incl. wall mount for display device as standard
- Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 52 mm
- Weighing plate dimensions, stainless steel W×D×H
- **△** 230×230×110 mm, **⑤** 300×240×110 mm **⑥** 400×300×128 mm, **⑥** 500×400×130 mm
- 650×500×142 mm, 800×600×200 mm Dimensions of display device W×D×H 230×230×360 mm
- · Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C





Accessories

- Protective working cover, scope of delivery:
 5 items, KERN KFB-A02S05, € 40,-
- Stand to elevate display device, for models with weighing plate size
 , :: Height of stand approx. 330 mm,
- KERN IFB-A01, € **50,-**□-**E**: ② Height of stand approx. 600 mm,
- KERN IFB-A02, € 60,-
- ■-■: Height of stand approx. 800 mm, Stand to elevate display device, height of stand approx. 800 mm, KERN BFS-A07, € 120,-
- Rechargeable battery pack internal, operating time up to 35 h, without backlight, charging time approx. 12 h, must be ordered at purchase, KERN KFB-A01, € 35,-
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification, KERN KFB-A03. € 130.-
- Analogue module, must be ordered at purchase, not possible in combination with signal lamp 0–10 V: KERN KFB-A04, € 95,-4–20 mA: KERN KFB-A05, € 95,-
- · Signal lamp KERN CFS-A03, € 250,-
- Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, KERN CFS-A04, € 35,-



Model	Weighing	Readability	Verification	Minimal load	Net weight	Weighing	Price		(Option	
	capacity		value			plate	excl. of VAT	Verifica	tion	DAkkS Calibr. Ce	ertificate
	[Max]	[d]	[e]	[Min]	approx.		ex works	MIII		DAkkS	
KERN	kg	g	g	g	kg		€	KERN	€	KERN	€
IFB 3K-4	3	0,1	-	-	6	Α	350,-	-	-	963-127	72,-
IFB 6K-4S	6	0,2	-	-	6	Α	320,-	-	-	963-128	88,-
IFB 6K-4	6	0,2	-	-	6	В	320,-	-	-	963-128	88,-
IFB 10K-4	15	0,5	-	-	6	В	320,-	-	-	963-128	88,-
IFB 10K-4L	15	0,5	-	-	10	C	390,-	-	-	963-128	88,-
IFB 30K-3	30	1	-	-	10	C	390,-	-	-	963-128	88,-
IFB 60K-3	60	2	-	-	10	C	390,-	-	-	963-129	105,-
IFB 60K-3L	60	2	-	-	14	D	490,-	-	-	963-129	105,-
IFB 100K-3	150	5	-	-	11	D	490,-	-	-	963-129	105,-
IFB 100K-3L	150	5	-	-	20	E	690,-	-	-	963-129	105,-
IFB 300K-2	300	10	-	-	20	E	690,-	-	-	963-129	105,-
IFB 600K-2	600	20	-	-	65	F	790,-	-	-	963-130	165,-
	Dual	-range balance	e switches aut	omatically to t	he next larges	t weighing ca	pacity [Max] a	nd readibility	/ [d]		
IFB 6K-3SM	3 6	1 2	1 2	20 40	4,6	Α	350,-	965-228	70,-	963-128	88,-
IFB 6K1DM	3 6	1 2	1 2	20 40	6	Α	335,-	965-228	70,-	963-128	88,-
IFB 15K2DM	6 15	2 5	2 5	40 100	6	В	335,-	965-228	70,-	963-128	88,-
IFB 15K2DLM	6 15	2 5	2 5	40 100	10	C	400,-	965-228	70,-	963-128	88,-
IFB 30K5DM	15 30	5 10	5 10	100 200	10	C	400,-	965-228	70,-	963-128	88,-
IFB 60K10DM	30 60	10 20	10 20	200 400	10	C	410,-	965-229	93,-	963-129	105,-
IFB 60K10DLM	30 60	10 20	10 20	200 400	13	D	505,-	965-229	93,-	963-129	105,-
IFB 150K20DM	60 150	20 50	20 50	400 1000	14	D	490,- 🕛	965-229	93,-	963-129	105,-
IFB 150K20DLM	60 150	20 50	20 50	400 1000	20	E	665,-	965-229	93,-	963-129	105,-
IFB 300K50DM	150 300	50 100	50 100	1000 2000	22	E	665,-	965-229	93,-	963-129	105,-
IFB 600K-1M	300 600	100 200	100 200	2000 4000	65	F	920,-	965-230	132,-	963-130	165,-

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

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





Stainless steel platform scale with stainless steel IP68 display and EC type approval [M]

Features

- · Ideal for the robust industrial applications
- II Platform: made entirely of stainless steel, silicone-coated stainless steel load cell, protection against dust and water splashes IP68. Substruction in wing design, extremely resistant to bending. Earthed weighing plate, to reduce static charge
- Display device: stainless steel, protection against dust and water splashes IP68, integrated power supply
- Suitable for the ever-increasing hygienic requirements in the food industry
- Wall mount for display device, standard
- Superior display size: digit height 55 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- Easy-to use KERN menu structure with printout of weighing results which can be intuitively adapted

 Thanks to interfaces such as RS-232, RS-485 and Bluetooth (optional) the scale can easily be connected to existing networks and facilitates the data exchange between the scale and printer

Technical data

- Large backlit LCD display, digit height 55 mm
- Weighing plate dimensions, stainless steel $\ensuremath{\mathsf{W}}\xspace^{\mathsf{X}}\xspace^{\mathsf{X}}\xspace^{\mathsf{X}}$
- 300×240×86 mm
- **B** 400×300×89 mm
- © 500×400×123 mm
- 650×500×133,5 mm
- Dimensions of display device W×D×H 232×170×80 mm
- · Cable length of display device approx. 2,5 m

Accessories

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

STANDARD		OPTION	FACTORY						
GLP CAL EXT PRINTER PCS	70L	△ 1 P 68 230 V	DMS 1 DAY	DAkkS +3 DAYS	RS 232	RS 485	₿	ACCU	+3 DA

Model	Weighing	Readability	Verification	Minimal load	Linearity	Weighing	Price		(Option	
	capacity		value			plate	excl. of VAT	Verifica	tion	DAkkS Calibr. Ce	rtificate
	[Max]	[d]	[e]	[Min]			ex works	MIII		DAkkS	
KERN	kg	g	g	g	g		€	KERN	€	KERN	€
SXS 6K-3M	3 6	1 2	1 2	20 40	± 1 2	Α	670,- 🕛	965-228	70,-	963-128	88,-
SXS 10K-3M	6 15	2 5	2 5	40 100	±2 5	Α	670,- 🕛	965-228	70,-	963-128	88,-
SXS 10K-3LM	6 15	2 5	2 5	40 100	± 2 5	В	820,- 🕛	965-228	70,-	963-128	88,-
SXS 30K-2M	15 30	5 10	5 10	100 200	± 5 10	В	820,- 🕛	965-228	70,-	963-128	88,-
SXS 30K-2LM	15 30	5 10	5 10	100 200	± 5 10	C	1110,- 🕛	965-228	70,-	963-128	88,-
SXS 60K-2M	30 60	10 20	10 20	200 400	± 10 20	В	820,- 🕛	965-229	93,-	963-129	105,-
SXS 60K-2LM	30 60	10 20	10 20	200 400	± 10 20	C	1110,- 🕛	965-229	93,-	963-129	105,-
SXS 100K-2M	60 150	20 50	20 50	400 1000	± 20 50	C	1110,- 🕛	965-229	93,-	963-129	105,-
SXS 100K-2LM	60 150	20 50	20 50	400 1000	± 20 50	D	1370,- 🕛	965-229	93,-	963-129	105,-
SXS 300K-2M	150 300	50 100	50 100	1000 2000	± 50 100	D	1370,- 🕛	965-229	93,-	963-129	105,-

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

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

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



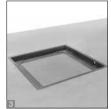
Floor scales/Pallet truck scales











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

Features

- · Weighing bridge: out of anti-slip corrugated steel, 4 silicone-coated steel load cells, dust and spray protection IP67
- · Welded platform with screw holes to lift the balance for easy cleaning
- · Easy levelling of the weighing bridge as well as access to the junction box from
- · Simple and convenient 4-key operation
- · Wall mount for display device, standard
- A clever plug-in connector means that you can easily separate the display device and the platform, e.g. for installing the balance in a packing and dispatch bench, pit frame etc. at a later date
- II Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN - always one step ahead

Technical data

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

Accessories

- · Protective working cover over display device, delivery quantity: 5 items, KERN EOB-A02S05, € 40,-
- · Pair of base plates to fix the weighing bridge to the floor, KERN BIC-A07, € 40,-
- Ascending ramp, steel, powder coated, steel, powder coated, not included, for models with weighing plate size
 - 1000×1000×108 mm,
 - KERN BIC-A01, € 350,-
- **1200×1000×108 mm**,
- KERN BIC-A02, € 380,-
- 1500×1000×108 mm,
- KERN BIC-A03, € 460,-
- 3 Stable pit frame, steel, powder coated, for models with weighing plate size A 1088×1088×110 mm,
- KERN BIC-A04, € 295,-
- **B** 1288×1588×110 mm,
- KERN BIC-A05, € 330,-
- 1588×1588×110 mm,
- KERN BIC-A06, € 350,-

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

CAL EXT	UNI
Model	

















Model	Weighing capacity	Readability	Net weight	Weighing plate	Price	Option	
					excl. of VAT	DAkkS Calibr. Ce	rtificate
	[Max]	[d]	approx.		ex works	DAkkS	
KERN	kg	kg	kg		€	KERN	€
	Dual-range balan	ce switches automatically	to the next largest weighin	g capacity [Max] and read	ibility [d]		
BIC 600K-1S	300 600	0,1 0,2	130	А	750,- 🕛	963-130	165,-
BIC 600K-1	300 600	0,1 0,2	150	В	900,- 🕛	963-130	165,-
BIC 1T-4S	600 1500	0,2 0,5	130	А	750,- 🕛	963-130	165,-
BIC 1T-4	600 1500	0,2 0,5	150	В	950,- 🕛	963-130	165,-
BIC 3T-3	1500 3000	0,5 1	150	В	950,- 🕛	963-132	440,-
BIC 3T-3L	1500 3000	0,5 1	150	C	1070,- 🕛	963-132	440,-



Floor scale with EC type approval [M]* and the best price-to-performance ratio - now also as a high-resolution dual-range scale

Features

- NEW: now also available as a dual-range balance! 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 - which saves space and money!
- BID 1T-4EM: Compact special size, especially for weighing europallets
- II Weighing bridge: out of anti-slip corrugated steel, 4 silicone-coated steel load cells, dust and spray protection IP67
- · Easy levelling of the weighing bridge as well as access to the junction box from
- 2 Display device: for details see KERN KFB-TM
- · Totalising of weights and piece counts
- · Thanks to interfaces such as RS-232 or USB, WiFi, Bluetooth, Ethernet (optional), the scale can easily be connected to existing networks. Data exchange between the scale, PC or printer

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

Technical data

- · Large LCD display, digit height 25 mm
- · Weighing plate dimensions W×D×H
 - A 1000×1000×108 mm
- 1200×1000×108 mm
- 1200×1500×108 mm
- 1500×1500×108 mm
- Dimensions of display device W×D×H 260×115×70 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery: 5 items, KERN EOC-A01S05, € 40,-
- · Pair of base plates to fix the weighing bridge to the floor, KERN BIC-A07, € 40,-
- **3** Ascending ramp, steel, powder coated, steel, powder coated, for models with weighing plate size
- A, B KERN BIC-A01, € 350,-
- KERN BIC-A02, € 380,-
- KERN BIC-A03, € 460,-
- 4 Stable pit frame, steel, powder coated, to install the weighing bridge so you can drive straight on, for models with weighing nlate size
 - M KERN BIC-A04, € 295,-
 - KERN BIC-A08, € 330,-
 - KERN BIC-A05, € 330,-
 - KERN BIC-A06, € 350,-
- · Further details, plenty of further accessories and suitable printers see website

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

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

STANDARD



















Price reduction























* Verification not in combination with KERN KIB-A02, KIB-A03, KIB-A04, KIB-A10









Model	Weighing	Readability	Minimal load	Net weight	Weighing plate	Price		(Option	
	capacity	= Verification value				excl. of VAT	Verifica	tion	DAkkS Calibr. Ce	ertificate
	[Max]	[d] = [e]	[Min]	approx.		ex works	MIII		DAkkS	
KERN	kg	kg	kg	kg		€	KERN	€	KERN	€
BID 600K-1SM	600	0,2	4	130	А	1020,- 🕛	965-230	132,-	963-130	165,-
BID 600K-1M	600	0,2	4	150	С	1250,- 🕛	965-230	132,-	963-130	165,-
BID 1T-4SM	1500	0,5	10	130	Α	1020,- 🕛	965-230	132,-	963-130	165,-
BID 1T-4M	1500	0,5	10	75	C	1280,- 🕛	965-230	132,-	963-130	165,-
BID 1T-4EM	1500	0,5	10	65	В	1120,- 🕛	965-230	132,-	963-130	165,-
BID 3T-3M	3000	1	20	150	С	1290,- 🕛	965-232	200,-	963-132	440,-
BID 3T-3LM	3000	1	20	150	D	1450,-	965-232	200,-	963-132	440,-
	Dual-ra	inge balance swite	ches automatica	lly to the next lar	gest weighing ca	pacity [Max] a	nd readibility	y [d]		
BID 600K-1DSM 2	300 600	0,1 0,2	4	130	Α	1090,-	965-230	132,-	963-130	165,-
BID 600K-1DM 🔤	300 600	0,1 0,2	4	150	С	1320,-	965-230	132,-	963-130	165,-
BID 1T-4DSM	600 1500	0,2 0,5	10	130	Α	1090,-	965-230	132,-	963-130	165,-
BID 1T-4DM	600 1500	0,2 0,5	10	150	С	1350,-	965-230	132,-	963-130	165,-
BID 3T-3DM	1500 3000	0,5 1	20	150	C	1360,-	965-232	200,-	963-132	440,-
BID 3T-3DLM	1500 3000	0,5 1	20	150	D	1520,-	965-232	200,-	963-132	440,-

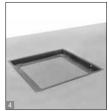
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

New model









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

Features

- · Weighing plate A, B screwed on from the top, so it's easy to remove, hygienic and easy to clean
- II Weighing bridge: steel, painted, weighing plate size , D corrugated steel plate, welded, 4 silicone-coated steel load cells, dust and spray protection IP67
- Display device: for details see KERN KFB-TM
- · Benchtop stand incl. wall mount for display device as standard
- · Totalising of weights and piece counts
- · Protective working cover included with delivery

Technical data

- · Large backlit LCD display, digit height 52 mm
- · Weighing plate dimensions W×D×H
- 1000×1000×85 mm
- **I** 1500×1250×85 mm
- 1500×1500×80 mm
- **■** 1500×1500×130 mm
- Dimensions of display device W×D×H 250×160×58 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN KFB-A02S05, € 40,-
- 2 Stand to elevate display device, height of stand approx. 800 mm, KERN BFS-A07. € 120.-
- · Pair of base plates to fix the weighing bridge to the floor, for models with weighing plate size
- A, B, C KERN BFS-A06N, € 70,-
- KERN BFS-A10, € 60,-
- 3 Ascending ramp, steel, lacquered, not included, for models with weighing plate size ■ KERN BFS-A01N, € 310,-
- KERN BFS-A02N, € 350,-
- KERN BFS-A09, € 410,-
- KERN BFS-A11, € 500,-
- 4 Stable pit frame, steel, lacquered, for models with weighing plate size
- KERN BFS-A03N, € 310,-
- B KERN BFS-A04N, € 370,-
- KERN BFS-A08, € 365,-
- · Rechargeable battery pack internal, operating time up to 35 h without backlight, charging time approx. 10 h, must be ordered at purchase, KERN KFB-A01, € 35,-

- · Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification, not possible in combination with RS-232 data interface, KERN KFB-A03, € 130,-
- · Analogue module, must be ordered at purchase, not possible in combination with signal lamp
- 0-10 V: KERN KFB-A04, € 95,-4-20 mA: KERN KFB-A05, € 95,-
- · Signal lamp for visual support of weighing with tolerance range, KERN CFS-A03, € 250,-
- · Large display with superior display size, KERN YKD-A02, € 220,-
- · Cable with special length 15 m, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03, € 160,-
- · Further details, plenty of further accessories and suitable printers see website

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

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

STANDARD































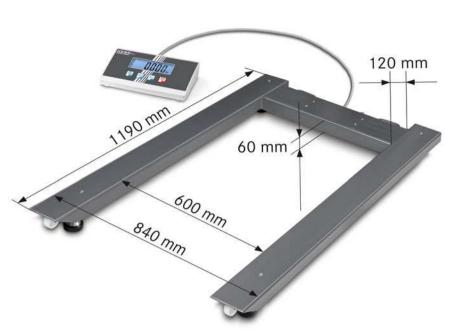






Model	Weighing	Readability	Minimal load	Net weight	Weighing plate	Price		(Option	
	capacity	= Verification value				excl. of VAT	Verification		DAkkS Calibr. Certif	
	[Max]	[d] = [e]	[Min]	approx.		ex works	MIII		DAkkS	
KERN	kg	kg	kg	kg		€	KERN	€	KERN	€
BFB 600K-1SNM	600	0,2	4	105	Α	1100,-	965-230	132,-	963-130	165,-
BFB 600K-1NM	600	0,2	4	135	В	1480,-	965-230	132,-	963-130	165,-
BFB 1T-4SNM	1500	0,5	10	100	Α	1110,-	965-230	132,-	963-130	165,-
BFB 1T-4NM	1500	0,5	10	135	В	1480,-	965-230	132,-	963-130	165,-
BFB 3T-3NM	3000	1	20	135	В	1480,-	965-232	200,-	963-132	440,-
BFB 3T1LM	3000	1	20	155	C	1700,-	965-232	200,-	963-132	440,-
BFB 6T-3M	6000	2	40	210	D	1950,-	965-232	200,-	963-132	440,-

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









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

Features

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

Technical data

- · Large LCD display, digit height 25 mm
- Dimensions of display device W×D×H 235×115×52 mm
- · Cable length of display device approx. 5 m
- Optional battery operation, 4×1.5 V AA not included, operating time up to 60 h
- · Net weight approx. 55 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- · Protective working cover over the display device, scope of delivery: 5 items, KERN EOB-A04BS05, € 40,-
- · Stand to elevate display device, height of stand approx. 950 mm, KERN EOB-A02B, € 70,-











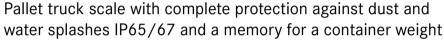






Model	Weighing capacity	Readability	Net weight	Price	Option	
				excl. of VAT	DAkkS Calibr. Ce	rtificate
	[Max]	[d]	approx.	ex works	DAkkS	
KERN	kg	kg	kg	€	KERN	€
UIB 600K-1	600	0,2	55	740,-	963-130	165,-
UIB 1.5T-4	1500	0,5	55	740,-	963-130	165,-
UIB 3T-3	3000	1	55	740,-	963-132	440,-





Features

- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- 11 Display device: plastic, protection against dust and water splashes IP65
- 2 Load fork: Protection against dust and water splashes IP67, temporary use in wet areas possible
- · Pivot range 206°
- · Castors: Solid rubber on aluminium rims
- 3 Load rollers: Tandem tyres to overcome thresholds and obstacles more easily
- · Totalising of weights
- · Ready for use: Batteries included, 4×1.5 V AA, operating time up to 80 h

Technical data

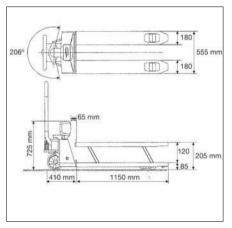
- · Large LCD display, digit height 28 mm
- Permissible ambient temperature -10 °C/40 °C

Accessories

· Castors made of red polyurethane on aluminium rims. Ideal for light-coloured flooring as they leave less visible abrasive marks. Suitable for the current models of the pallet truck scale ranges KERN VHB, KERN VHS (when retrofitting, please give the serial number of the pallet truck scale available when ordering), scope of delivery: 1 item, KERN VHB-A02, € 160,-







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

STANDARD















Model	Weighing capacity	Readability	Net weight	Price	Option	
				excl. of VAT	DAkkS Calibr. Ce	rtificate
	[Max]	[d]	approx.	ex works	DAkkS	
KERN	kg	kg	kg	€	KERN	€
VHB 2T1	2000	1	110	1310,- 🕛	963-131	220,-

www.kern-sohn.com · Order hotline +49 7433 9933-0



Hanging scales





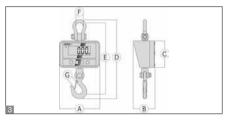












High-resolution hanging scale for loads up to 300 kg

Features

- · NEW: 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
- II With the TÜV certification mark, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- High mobility: thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- Hold function: When the weighing value remains unchanged the weight indicated on the display is automatically "frozen" until the Hold key is pressed

- Tare: Resets the display to "0" when there is a load on the scale. Now removed or added loads are directly displayed
- · Batterie charge status indication visualised through LED
- · Large high-contrast display that is easy to read
- · Standby function: display automatically switched off a er 5 min without a change of load. Automatic activation with the touch of
- · Hook with safety catch, revolving
- · Shackle and safety catch made of nickel-plated steel
- 2 Infrared remote control standard. Range up to 20 m. All functions can be selected. W×D×H 65×24×100 mm. Batteries included

Technical data

- · LCD display, digit height 28 mm
- Batteries included, 4×1.5 V AA, operating time up to 100 h
- Precision: 0,2 % of [Max]
- Permissible ambient temperature 5 °C/35 °C











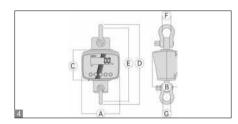
Model	Weighing	Readability	Net weight	= 5						Price	Option		
	capacity [Max]	[d]	approx.	Δ	В	С	D	F	F	G	excl. of VAT ex works	DAkkS Calibr. Ce	rtificate
KERN	kg	g	kg	mm	mm	mm	mm	mm	mm	mm	€	KERN	€
HCD 60K-2	60	20	0,85	194	79,3	97,7	276,5	246,5	26	23,5	195,-	963-129H	105,-
HCD 100K-2	150	50	0,85	194	79,3	97,7	276,5	246,5	26	23,5	195,-	963-129H	105,-
HCD 300K-1	300	100	0,85	194	79,3	97,7	276,5	246,5	26	23,5	195,-	963-129H	105,-
	Du	al-range bala	ince switches	automat	ically to th	ne next lar	gest weig	hing capa	city [Max]	and read	ibility [d]		
HCD 100K-2D	60 150	20 50	0,85	194	79,3	97,7	276,5	246,5	26	23,5	205,-	963-129H	105,-
HCD 300K-2D	150 300	50 100	0,85	194	79,3	97,7	276,5	246,5	26	23,5	205,-	963-129H	105,-











Robust, high-resolution crane scale up to 12 t

Features

- II With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/ Breakage resistance) and EN 61010-1 (Electrical safety)
- · Because of its stable construction and robust design, it is ideal for continuous use in industrial environment
- · High mobility: thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- · Hold function: When the weighing value remains unchanged the weight indicated on the display is automatically "frozen" until the Hold key is pressed

- Tare: Resets the display to "0" when there is a load on the scale. Now removed or added loads are directly displayed
- · Solid shackles, non-revolving
- 2 Radio remote control standard. Range up to 20 m. All functions can be selected (excl. ON/OFF). W×D×H 65×24×100 mm. Batteries included, 1× 12 V 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 internal, operating time up to 70 h, battery pack accessible from the outside, which means it is easy to replace
- Precision: 0,2 % of [Max]
- Permissible ambient temperature -10 °C/40 °C

Accessories

- · Rechargeable battery pack internal for load support, operating time up to 70 h, without backlight, charging time approx. 12 h, KERN HFD-A04, € 65,-
- 3 Hook with safety catch, cast steel, galvanised and lacquered, non-revolving, suitable for models

HFD 600, HFD 1T: KERN HFD-A01, € 40,-HFD 3T: KERN HFD-A02, € 55,-HFD 6T, HFD 10T: KERN HFD-A03, € 95,-



1		A 44			DAkk
EXT	ACCU	MULTI	DMS	1 DAY	+3 DAY
odel			Naighin	g capac	ity

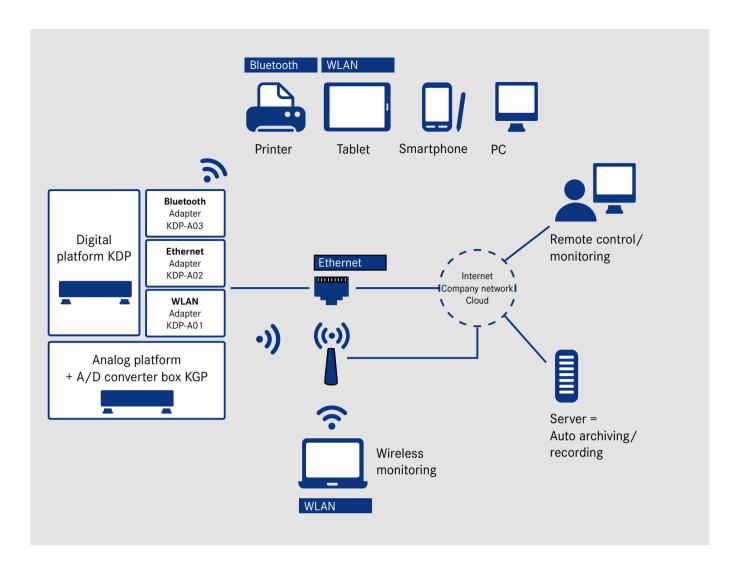
OPTION
DAkkS
+3 DAYS

Model	Weighing capacity	Readability	Net weight			4 Dim	ensions			Price	Option	
			approx.					excl. of VAT	DAkkS Calibr. Ce	rtificate		
	[Max]	[d]		Α	В	С	D	Е	F = G	ex works	DAkkS	
KERN	kg	g	kg	mm	mm	mm	mm	mm	mm	€	KERN	€
	Triple rang	ge balance switches auto	omatically to th	e next la	argest w	eighing	capacity	[Max] a	and read	libility [d]		
HFD 600K-1	150 300 600	50 100 200	9	194	129	145	421	383	50,8	370,-	963-130H	165,-
HFD 1T-4	300 600 1500	100 200 500	9	194	129	145	421	383	50,8	390,-	963-130H	165,-
HFD 3T-3	600 1500 3000	200 500 1000	10	194	129	145	421	383	50,8	620,-	963-132H	500,-
HFD 6T-3	1500 3000 6000	500 1000 2000	15	194	129	145	477	426	68,3	650,-	963-132H	500,-
HFD 10T-3	3000 6000 12000	1000 2000 5000	20	194	129	145	573	510	82,5	790,-	963-133H	700,-



System solutions Industry 4.0





Increased efficiency is the key to greater success in ever tightening markets

This inevitably leads to increased pressure on employees in laboratories, clinics, industrial or service companies – more and more tasks must be carried out in less and less time. Often, this can only happen if it is possible to automate processes either in part or fully.

To do this we process the measuring and weighing data which has been collected digitally and transfer it to the relevant software applications in the right format for that particular user, i.e. the user software receives the measuring and weighing data in the format required for processing. To do this, as well as powerful hardware components, we use the KERN BalanceConnection multi-function software, which, in its PRO version, has been further enhanced to give an even greater range of functions. The competent team from our "Industry 4.0 centre" of expertise will be happy to help you integrate your KERN balances.

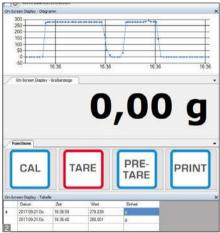
In a further step we offer users of KERN balances a wealth of EasyTouch Apps, which shapes the user-specific application into an intuitive workflow and thus guides you through the process, efficiently and reliably. This applies to chemical or biological laboratory tests just as it does to industrial and production processes in manufacturing industries or in the manufacture of food products or pharmaceutical products.

The KERN EasyTouch Apps in combination with the relevant hardware, such as, for example, with a Smartphone, tablet or PC and a balance, make your apparently simple balance into a high-tech instrument with integrated workflow and database software, which works in conjunction with other balances, network systems and database servers.

This modular software/hardware architecture creates extremely efficient weighing systems, which are customised to your own particular requirements and which can grow with you and your increasing requirements. Ask the team from our "Industry 4.0 centre of expertise", they will be happy to help you with any questions related to application solutions/software.







Robust industrial platform scale with A/D converter box, ideal for varied range of applications for Industry 4.0

Features

- · With this combination of platform (KERN KFP V20 IP65) and A/D converter box (KERN YKV-01) your weighing processes are ready for the requirements of Industry 4.0. Simply install the platform, connect the A/D converter box to the network and start weighing
- · For rapid transfer of weighing data to connected networks, computers, etc.
- · USB and RS-232 data interface standard
- · Transfer formats are freely configurable
- · Many interface variants available WiFi data interface, KERN YKV-A01, € 60,-Bluetooth data interface, KERN YKV-A02, € 60,-Other interfaces on request. A/D converter box with standard Ethernet data interface on request
- · Functions: Weighing, taring

- Internal resolution 16 million divisions
- · Measurement frequency 10 Mz
- · Easy configuration using the software
- · KERN YKV-01: Robust plastic die-cast housing
- · KERN YKV-01: Suitable for wall mounting and DIN track mount
- · Included with delivery:
- Industrial platform KERN KFP
- A/D converter box KERN YKV-01
- 2 Configuration software 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. The displayed result can therefore be converted to any format for communication with the different user programs, such as, for example, e.g. SAP, Oracle etc.

Technical Data

- · Weighing plate material stainless steel
- KERN YKV-01: Overall dimensions W×D×H 100×127×28 mm
- · Permissible ambient temperature -10 °C/ 40 °C

Accessories

· Software BalanceConnection, flexible recording or transfer of measurements, particularly to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs. The displayed result can therefore be converted to any format for communication with the different user programs, such as, for example, e.g. SAP, Oracle etc., for details see page 12, KERN SCD-4.0, € 150,-

























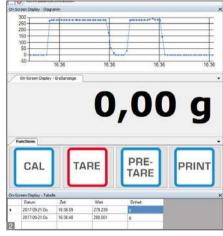


Model	Weighing capacity	Read-out	Weighing plate	Cable length	Net weight	Price	Options	
			0 01	J	approx.	excl. of VAT	DAkkS Calibr. Ce	rtificate
	[Max]	[d]				ex works	DAkkS	
KERN	kg	g	mm	m	kg	€	KERN	€
KGP 6K-4	6	0,2	300×240×120	3	6	430,-	963-128	88,-
KGP 6K-4L	6	0,2	400×300×128	3	10	450,-	963-128	88,-
KGP 10K-4	15	0,5	300×240×120	3	6	450,-	963-128	88,-
KGP 10K-4L	15	0,5	400×300×128	3	10	490,-	963-128	88,-
KGP 30K-3	30	1	300×240×120	3	6	450,-	963-128	88,-
KGP 30K-3L	30	1	400×300×128	3	10	490,-	963-128	88,-
KGP 60K-3	60	2	400×300×128	3	10	520,-	963-129	105,-
KGP 60K-3L	60	2	500×400×137	3	13	580,-	963-129	105,-
KGP 100K-3	150	5	500×400×137	3	14	580,-	963-129	105,-
KGP 100K-3L	150	5	650×500×142	3	22	780,-	963-129	105,-
KGP 300K-2L	300	10	650×500×142	3	22	780,-	963-129	105,-









Modern A/D converter 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

- With this A/D converter box your weighing processes are ready for the requirements of Industry 4.0. Simply connect a weighing platform or measuring cell, integrate the A/D converter box into the network and start weighing
- · For rapid transfer of weighing data to connected networks, computers, etc.
- · USB and RS-232 data interface standard
- · Transfer formats are freely configurable
- · Many interface variants available WiFi data interface, KERN YKV-A01, € 60,-Bluetooth data interface, KERN YKV-A02, € 60,-Other interfaces on request. A/D converter box with standard Ethernet data interface on request
- Functions: Weighing, taring
- Internal resolution 16 million divisions
- · Measuring frequency 10 Hz
- · Easy configuration using the software supplied

- · Robust plastic die-cast housing
- Suitable for wall mounting and DIN track mount
- · Compatible with all KERN weighing platforms
- · Included with delivery:
- Industrial platform KERN KFP
- A/D converter box KERN YKV-01
- 2 Configuration software 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. The displayed result can therefore be converted to any format for communication with the different user programs, such as, for example, e.g. SAP, Oracle etc.

Price excl. of VAT ex works, KERN YKV-01, € 190,-

Technical Data

- Overall dimensions W×D×H 100×127×28 mm
- · Net weight approx. 1,2 kg
- · Permissible ambient temperature -10 °C/40 °C

Accessories

· Software BalanceConnection, flexible recording or transfer of measurements, particularly to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs. The displayed result can therefore be converted to any format for communication with the different user programs, such as, for example, e.g. SAP, Oracle etc., for details see page 12, KERN SCD-4.0, € 150,-





















KERN KTA-T, € 400,- (on request)









1

Convert your balance into a computer!

This modern tablet transforms your weighing components into a powerful measuring system with a wide variety of analysis options in an instant. Simply download the appropriate app on the tablet and process the weighing data according to your ideas. Thanks to this modular concept, the initial investment is kept to a minimum and, at the same time, offers you a high level of investment security and future reliability. If your requirements should increase or your area of work should expand, then simply download more Apps. In this way the investment remains predictable and you do not pay for functions which you do not need – pretty smart!



KERN KTA-T – Multifunctional tablet for connection to digital platforms, balances, measuring cells

Features

- Ideal for use in the laboratory environment, industry, test laboratories, etc., either as permanently fixed large display for one balance or as mobile display for one or more scales using WLAN or Bluetooth
- 🔳 Compact, slim tablet
- Superior display size in comparison with a standard display on a balance
- Separate connection for power supply, so, when charging, the USB connection remains free for USB sticks, peripheral devices, etc.
- MicroUSB to connect peripheral devices, can also be used for power supply
- For further information and extensive accessories, please see www.kern-sohn.com/de/KTA-T

Accessories

 2 Aluminum tablet stand, infinitely adjustable in inclination for ergonomic reading and operation of the tablet, the tablet can be set upright and transversely, rubberized contact points ensure a non-slip grip and protect the tablet, W×D×H 100×35×85 mm, KERN YKD-A03, € 20,-

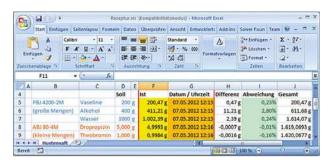
STANDARD STANDA

KERN KTB-T – Robust professional tablet for demanding weighing applications

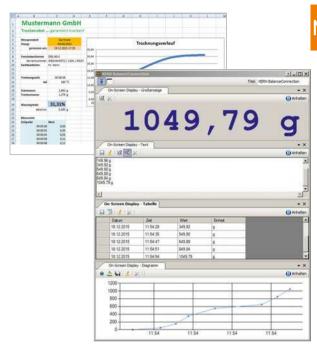
Features

- Ideal for use in the laboratory environment, pharmaceutical field, industry, test laboratories, etc., either as permanently fixed large display for one balance or as mobile display for one or more scales using WLAN or Bluetooth
- Wide range: can be connected to a variety of balances, from the analytical balance to the floor scale, thus particularly comfortable management of the weighing systems used
- · High-quality industrial tablet
- Superior display size in comparison with a standard display on a balance
- Is Separate connection for power supply, so, when charging, the USB connection remains free for USB sticks, peripheral devices, etc.
- A large number of standard integrated interfaces allow the parallel connection of peripheral devices, storage media, network connections, etc.
- Octopus cable as standard, allows the parallel connection of up to 5 peripheral devices, networks, etc. with only one interface
- MicroUSB for connecting peripheral devices as well as integrated VESA mounting preparation for mounting the tablet to a wide variety of standard mounts, tripods etc. as standard
- For further information and extensive accessories, please see www.kern-sohn.com/de/KTB-T

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

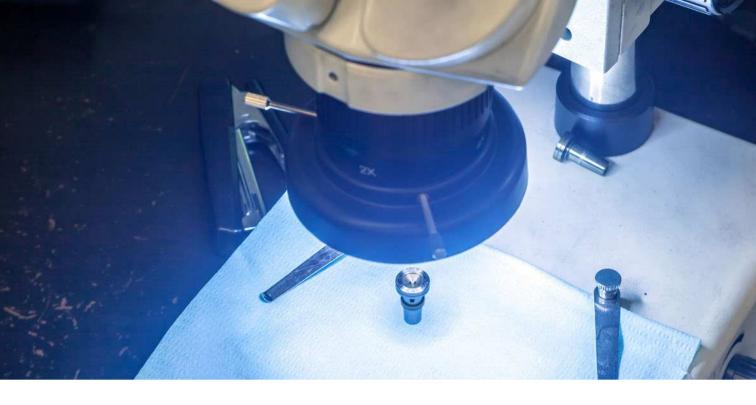
Features

- For operating systems Windows XP, Vista, 7, 8, 8.1, 10
- Supports balances measuring devices with RS 232, RS 485, Bluetooth, LAN or WLAN network (TCP/UDP/IP)
- Highly flexible formatting of the output (any order, formatting and rounding), particularly recording of date and time for every value transferred, if required
- Any number of devices/interfaces can be connected, as well as simultaneous and synchronised recording of several balances
- Key-activated or time-controlled interrogation of measurements or trigger of device functions, also for continuous recording
- The interface protocols for KERN balances are already predefined (standard configuration)
- Compatible interface cable included when you order a KERN balance at the same time
- Many different transfer and recording options:
 - Microsoft® Excel/Access/Word in the foreground or background
 - Other Windows applications (through key simulation), e.g. shipping software or ERP system (SAP, Sage, etc.)
 - File recording (e.g. as text or CSV file)
 - Print out on text or label printer
 - Screen output such as large display, line chart (drying curve for moisture analyzer), histogram, etc.

- 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

Benefits

- Ideal software where weighing data which has been collected needs to be transferred to a Windows PC
- Particularly suitable for professional integration of weighing systems into existing networks where there is a high demand for automated data transfer and further processing, for integration of databases
- · Automatic recording, e.g. for long-term tests
- GLP-compliant lab software
- Can be used across different branches and applications
- Also available as a cost-optimised package with 5 licenses, you save more than 30 %!
- Also available immediately as a download license
- Scope of supplies:
 1 CD, 1 License
 KERN SCD-4.0-PRO, € 290,-
- Scope of supplies: 1 CD, 5 Licenses KERN SCD-4.0-PROS05, € 990,-
- Scope of supplies: Download link for 1 License, KERN SCD-4.0-PRO-DL, € 290,-



Microscopes and Refractometers







Stage plate black



Stage plate white

EDUCATIONAL LINE

The practical and robust product for schools, training centres, the workshop and laboratory

Features

- With its integrated handle as well as its stable arm curved stand, the KERN OSF-4G has been specially developed for schools and workshops
- The LED reflected and transmitted illumination included as standard guarantees the very best, continuously dimmable illumination of your sample
- As well as very good optical characteristics, its ergonomic working surface means that it offers the highest level of convenience in this class
- A turnable objective with three predefined magnifications is available to make your working procedures quicker and more effective

- The eyepieces are fixed in the eyepiece tube, to stop them getting damaged or lost
- The ergonomic shape and the stable mechanism which can be adjusted extremely accurately offer a high level of functionality and enable you to work quickly and efficiently with very little effort
- A large selection of eyepieces as well as various additional external illumination units are available as accessories
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery

Scope of application

 Training, in vitro fertilisation, detection of parasites, zoology and botany, tissue preparation, section, quality control

Applications/Samples

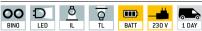
 Samples with focus on three-dimensional impression (depth, thickness), e.g. insects, seeds, circuit boards, components

Technical data

- · Optical system: Greenough optics
- Brightness adjustable (separate)
- Tube 45° inclined
- Interpupillary distance 55 75 mm
- Diopter adjustment: One-sided
- Overall dimensions W×D×H 230×180×275 mm
- Net weight approx. 2,5 kg



For details on the scope of delivery and extensive accessories, see www.kern-sohn.com



Model				Standard	configuration		Price
	Tube	Eyepiece	Field of view	Objective	Stand	Illumination	excl. of VAT ex works
KERN			mm				€
OSF 438	Binocular	WF 10×/Ø 20 mm	Ø 20	1×/2×/3×	Arm curved	1 W LED (incident); 0,35 W LED (transmitted)	325,-
OSF 439	Binocular	WF 10×/Ø 20 mm	Ø 20	1×/2×/4×	Arm curved	1 W LED (incident); 0,35 W LED (transmitted)	325,-





The flexible, affordable all-rounder with zoom function for schools,

training companies, inspection authorities and laboratories



OZL 465 With ring illumination



OZL 467 With handle

• 1

For details on the scope of delivery and extensive accessories, see www.kern-sohn.com

Features

LAB LINE

- The products in the KERN OZL-46 series are stereo zoom microscopes, which will impress you with their quality, easy handling, flexibility as well as their stability and economical price
- The LED reflected and transmitted illumination included as standard guarantees the very best illumination of your sample
- The highlight of the OZL 465/OZL 466 is the strong, continuously dimmable, integrated LED ring illumination in the objective housing, which ensures uniform, shadow-free illumination. An LED transmitted light variant is also included
- As well as excellent optical characteristics and their large working surface, these models offer the highest level of comfort in this class

 ideal for training companies, workshops as
 well as assembly and repair workstations, e.g. in the electronics industry
- The zoom objective offers you continuous magnification from $7\times\text{--}45\times$

- The KERN OZL-46 series is available as a binocular or trinocular version
- The pillar stand offers you the highest level of flexibility and the freedom to remove the microscope head and to integrate it into other modular systems, for example into a universal stand
- With its integrated handle as well as its stable arm curved stand, the KERN OZL 467/OZL 468 has been specially developed for schools and workshops
- A large selection of eyepieces, external illumination units as well as auxiliary objectives are available as accessories
- A protective dust cover, eye cups, as well as multi-lingual user instructions are included in the scope of delivery
- A C-mount adapter is required to connect a camera to the trinocular version. You can select this adapter from the following model outfit list

Scope of application

 In vitro fertilisation, detection of parasites, zoology and botany, tissue preparation, section, quality control

Applications/Samples

 Samples with focus on three-dimesnional impression, zoom with variable magnification (depth, thickness), e.g. insects, seeds, circuit boards, components

Technical data

- Optical system: Greenough optics
- · Brightness adjustable (separate)
- \bullet Tube 45° inclined
- Magnification ratio: 6,4:1
- Light distribution 50:50
- Interpupillary distance 55 75 mm
- Diopter adjustment: Both-sided
- Overall dimensions W×D×H 300×240×420 mm
- Net weight approx. 4 kg



Model				Standard	configuration		Price
	Tube	Eyepiece	Field of view	Objective	Stand	Illumination	excl. of VAT ex works
KERN			mm	Zoom			€
OZL 463	Binocular	HWF 10×/Ø 20 mm	Ø 28,6 - 4,4	0,7× - 4,5×	Pillar style	3 W LED (incident); 3 W LED (transmitted)	500,-
OZL 464	Trinocular	HWF 10×/Ø 20 mm	Ø 28,6 - 4,4	0,7× - 4,5×	Pillar style	3 W LED (incident); 3 W LED (transmitted)	570,-
OZL 465	Binocular	HWF 10×/Ø 20 mm	Ø 28,6 - 4,4	0,7× - 4,5×	Pillar style	3 W LED (incident); 3 W LED (transmitted)	550,-
OZL 466	Trinocular	HWF 10×/Ø 20 mm	Ø 28,6 - 4,4	0,7× - 4,5×	Pillar style	3 W LED (incident); 3 W LED (transmitted)	620,-
OZL 467	Binocular	HWF 10×/Ø 20 mm	Ø 28,6 - 4,4	0,7× - 4,5×	Arm curved	3 W LED (incident); 3 W LED (transmitted)	510,-
OZL 468	Trinocular	HWF 10×/Ø 20 mm	Ø 28,6 - 4,4	0,7× - 4,5×	Arm curved	3 W LED (incident); 3 W LED (transmitted)	580,-



Predefined stereo microscope sets with universal stand and illumination for your functional workplace

Features

- Sets which have already been defined (except OSE 409), consisting of a stereo microscope head, a universal stand, a holder, a ring illumination and a dust cover from our range
- Simple convenient affordable
- This saves you spending time on configuration and being spoilt for choice in the combination of different components. In this way you get an in expensive and highly-flexible solution for your microscope workplace

Model	Microscope h	nead	Stand	Holder	Illumination	Price excl. of VAT
KERN	Tube Objective Zoom					ex works €
OSE 409	Binocular (WF 10×/ Ø 20 mm)	1x (WD: 230 mm)	Swivel arm with block pedestal	With coarse focusing knob Adjustable torque of the hand wheels	3W LED goose neck (integrated)	355,-
DZL 961 Binocular (OZL 461) 0,7×-4,5×		Telescopic arm with plate	With coarse focusing knob Adjustable torque of the hand wheels	4,5 W LED ring light (OBB-A6102)	880,-	
OZL 963	Trinocular (OZL 462)	0,7× - 4,5×	Telescopic arm with plate	With coarse focusing knob Adjustable torque of the hand wheels	4,5 W LED ring light (OBB-A6102)	950,-
OZM 902 <u>™</u>	Binocular (OZM 546)	0,7× - 4,5×	Telescopic arm with plate (OZB-A1201)	With coarse focusing knob Adjustable torque of the hand wheels (OZB-A5301)	4,5 W LED ring light (OBB-A6102)	1290,-
OZM 903 <u>™</u>	Trinocular (OZM 547)	0,7× - 4,5×	Telescopic arm with plate (OZB-A1201)	With coarse focusing knob Adjustable torque of the hand wheels (OZB-A5301)	4,5 W LED ring light (OBB-A6102)	1570,-
OZM 912	Binocular (OZM 546)	0,7× - 4,5×	Telescopic arm with plate (OZB-A5201)	With coarse focusing knob Adjustable torque of the hand wheels (OZB-A5301)	4,5 W LED ring light (OBB-A6102)	1440,-
OZM 913	Trinocular (OZM 547)	0,7× - 4,5×	Telescopic arm with plate (OZB-A5201)	With coarse focusing knob Adjustable torque of the hand wheels (OZB-A5301)	4,5 W LED ring light (OBB-A6102)	1740,-
OZM 922 <u>™</u>	Binocular (OZM 546)	0,7× - 4,5×	ball-beared double telescopic arm with plate (OZB-A1203)	With coarse focusing knob Adjustable torque of the hand wheels (OZB-A5301)	4,5 W LED ring light (OBB-A6102)	1340,-
OZM 923 <u>™</u>	Trinocular (OZM 547)	0,7× - 4,5×	ball-beared double telescopic arm with plate (OZB-A1203)	With coarse focusing knob Adjustable torque of the hand wheels (OZB-A5301)	4,5 W LED ring light (OBB-A6102)	1620,-
OZM 932	Binocular (OZM 546)	0,7× - 4,5×	ball-beared double telescopic arm with plate (OZB-A5203)	With coarse focusing knob Adjustable torque of the hand wheels (OZB-A5301)	4,5 W LED ring light (OBB-A6102)	1730,-
OZM 933	Trinocular (OZM 547)	0,7× - 4,5×	ball-beared double telescopic arm with plate (OZB-A5203)	With coarse focusing knob Adjustable torque of the hand wheels (OZB-A5301)	4,5 W LED ring light (OBB-A6102)	2030,-

Professional illumination units guarantee outstanding, uniform and strong illumination

These illumination units are also available with UK mains plug. For more information on this, visit our online shop or give us a ring

Features

- · Choose your favourite external illumination here to achieve maximum flexibility and greatest possible ease of use in stereo microscopy
- These professional illumination units provide a quality of light at a high, constant intensity at all times
- · Regardless of whether your choice is space-saving ring lights or cold light sources using optical fiber, our range is all you can wish for
- With the OZB-A7101 polarisation ring illumination unit, you also have an excellent component which has been specially optimised for observing shiny surfaces
- · Naturally, these external illumination units also fit your standard stereo microscope
- Exception: The ring illumination units cannot be used in combination with the following ranges: OSE-1, OSF-4G, OZL-45R, OZC-5 and









OZB-A4571

OZB-A4572

OBB-A6102

OZB-A7101

Model	Illuminance	Inner Ø	Colour temperature	Brightness adjustable	Illumination by segments	Polarising filter	Price excl. of VAT ex works €
OZB-A4571	3W-LED	60	7000 - 11000	✓			90,-
OZB-A4572	3W-LED	60	6500 - 7000	✓	✓		140,-
OBB-A6102	4,5W-LED	63	ca. 7600	✓			135,-
OZB-A7101	4,5W-LED	62	6500 – 7000	✓		✓	590,-

✓ = Included with delivery

Fiber illumination KERN OZB-IF

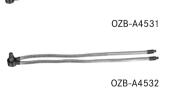
Features

· With the OZB-A4516 20 W-LED goose neck illumination unit with focusable light beam, you can adjust the illumination to suit your needs. Spot or scattered radiation means that you can achieve the very best illumination of your sample.











OZB-A4516 OZB-A4515 OZB-A4512

OZB-A4533

Model KERN	Description	Length	Illuminance	Colour temperature	Brightness adjustable	Price excl. of VAT ex works €
OZB-A4515	Dual fiber unit LED	300	6W	5600 - 6300	✓	150,- 🕛
OZB-A4516 🔤		540	20W	6400	✓	620,-
OZB-A4512*	Cold light source halogen	-	24V/150W	3150 - 3200	✓	290,-
OZB-A4531*	Single fiber	490				175,-
OZB-A4532*	Dual fiber	490	Usable for OZB-A451		245,-	
OZB-A4533*	Ring fiber	900	OSable for OZD-A431	350,-		

Price reduction

✓ = Included with delivery

O = Option

O = Option

Specialists in microscopy for measurement, counting, documentation, archiving and image processing

Features

- A large selection of microscope cameras is available for your individual applications
- The universal microscope cameras can be used anywhere and can be connected to the microscope as well as to a laptop or PC using the USB cable (USB 2.0 or USB 3.0, see table)
- The power supply is through the USB cable, which means that no additional power supply is required
- Your daily work is made significantly easier with the very best synchronisation, a high frame rate as well as stable image performance together with our camera software microscope VIS KERN OXM 901 which we deliver with the product
- For details about our software please refer to the "Camera software microscope VIS KERN OXM 901" product group in the catalogue (page 88) or see www.kern-sohn.com
- These universal cameras can also be connected to all microscopes available on the market offering the appropriate C-mount adapter for the particular microscope

C-mount cameras - USB 2.0/3.0 KERN ODC-82 · ODC-83



Features

- Through the proven CMOS technology, in connection with the USB 2.0 or USB 3.0 the images are shown quickly and clearly
- These cameras are also ideal for more demanding applications, such as, for example, darkfield, phase contrast and for fluorescence applications
- As well as the camera, the delivery includes our multi-lingual camera software Microscope VIS KERN OXM 901, a USB cable (Length: 2 m) various eyepiece adapters and an object micrometer to calibrate the software
- Please order the appropriate C-mount adapter to fit your KERN microscope now

STANDARD

USB 2.0 USB 3.0 SOFTWARE 1 DAY

Model KERN	Resolution	Interface	FPS	Sensor	Sensor size	Colour/ Monochrome	Supported operating system	Price excl. of VAT ex works €
ODC 822	1,3 MP	USB 2.0	15 – 48	CMOS	1/3"	colour	Win XP, Vista, 7, 8, 10	280,-
ODC 824	3,1 MP	USB 2.0	11,5 - 45	CMOS	1/2"	colour	Win XP, Vista, 7, 8, 10	370,-
ODC 825	5,1 MP	USB 2.0	6,8 – 55	CMOS	1/2,5"	colour	Win XP, Vista, 7, 8, 10	385,-
ODC 831	3,1 MP	USB 3.0	27,3 - 53,3	CMOS	1/3"	colour	Win XP, Vista, 7, 8, 10	500,-
ODC 832	5,1 MP	USB 3.0	14,2 - 101,2	CMOS	1/2,5"	colour	Win XP, Vista, 7, 8, 10	530,-

C-mount camera - HDMI KERN ODC-85



Features

- The ODC-851 HDMI microscope camera has been specially developed for direct HDMI connection to your HDMI compatible display device. The images can also be stored directly onto the SD card delivered with the device
- As an alternative, a USB 2.0 connection is also still available to connect a laptop or PC
- Power supply is from an external 12 V power unit
- Scope of delivery: Camera, software, USB mouse, USB 2.0 cable (Length: 2 m), HDMI cable (Length: 2 m) and SD card (16 GB)
- Please order the appropriate C-mount adapter to fit your KERN microscope now

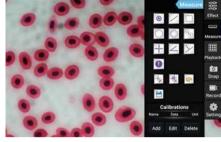
USB 2.0 HDMI SD SOFTWARE 230 V 1 DAY

Model KERN	Resolution	Interface	FPS	Sensor	Sensor size	Colour/ Monochrome	Supported operating system	Price excl. of VAT ex works €
ODC 851	2 MP	HDMI, USB 2.0, SD	30 - 60	CMOS	1/2,8"	colour	Win XP, Vista, 7, 8, 10	990,-









Integrated software with measuring function

Digital microscopy brought up to date - tablet with integrated camera for optimal observation and digital documentation of the sample

Features

- · A 2-in-1 solution in digital microscopy as a universal system for trinocular microscopes with C-mount adapter. The ODC 241 microscope-tablet-camera consists of a large Android tablet in combination with a 5-MP camera
- The KERN ODC 241 tablet-camera has been specially developed for simple and direct observation of the sample on the screen. Ideally suited for school pupils and students in education or for demonstration purposes in the laboratory
- · As well a live transfer of the image to the Android table, the integrated 5-MP camera also means that images and videos can be created for the documentation.
- · Simple measuring functions such as, for example, functions for measuring distance, surfaces and angles as well as a manual counting function are also available

- · Automatic white balance and automatic contrast adjustment can be performed quickly and easily, which enables efficient working procedures
- · A range of additional functions are provided through the integrated interfaces, such as, for example
- Data storage on a USB stick or SD card
- Connection to a USB mouse
- Transfer of the live image to an external screen using HDMI
- Transfer of stored data to external receivers using WLAN
- · The delivery includes the tablet camera with pre-installed software as well as the mains adapter

Technical data

- 9.7" LCD-Touchscreen
- · Screen resolution: 2048×1536 pixels
- · CPU: Quad Core Cortex-A17; 1,8 GHz
- · Overall dimensions W×D×H 238×51×206 mm
- Net weight approx. 0,65 kg











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Model KERN	Resolution Camera	Interface	FPS	Sensor	Sensor size	Supported operating system	Price excl. of VAT ex works €
ODC 241	5 MP	WLAN, USB 2.0, HDMI, SD	15 – 30	CMOS	1/2,5"	Android 5.1	890,-





Now also available with calibration certificate!

Refractive index measurement for laboratories and the industry

Features

- The KERN ORA refractometers are universal, maintenance free analogue handheld refractometers
- The handy and robust design allows the easy, efficient and sustainable use in everyday life
- Manually calculated conversions and errors of the user are avoided by multiple selectable scales
- These scales are especailly developed, exactly calculated and checked. They are also characterized by their thin and clear lines
- The optical system and the prism cover are made of special material which allows a low-tolerance measuring
- All ORA models are equipped with an eyepiece for easy and smooth setting for many different diopter strengths

- The models marked with "ATC" have an automatic temperature compensation which enables accurate measurement at different ambient temperatures (10 °C/30 °C)
- The follwoing accessory-parts are included:
- Storage box
- Calibration liquid
- Calibration block (if required)
- Pipette
- Small screwdriver
- Cleaning tissue
- Accessories are available optionally

Technical data

- Die-cast housing of copper-aluminium alloy, chrome coated
- · Measurement temperature without ATC: 20 °C
- Measurement temperature range with ATC: 10 °C/30 °C
- Dimensions of the box: 205×75×55 mm (depending on the model)
- Product length: approx. 130 200 mm (depending on the model)
- Net weight approx. 135 600 g (depending on the model)





Model KERN	Scales	Measuring range	Division	ATC	Scope of application	Price excl. of VAT ex works €
ORA 20BA	Brix	0 – 20 %	0,1 %	✓	Sugar	85,-
ORA 1UA	Urea	0 – 40 %	0,2 %	✓	Industry/Automotive	85,-
ORA 4RR	Refractive index	1,440 - 1,520 nD	0,001 nD		Expert applications	85,-





Transport and storage case



Rear view, screw-on battery compartment cover



IP65: Protected against dust and water splashes

Digital refractive index measurement for laboratories and the industry for multi-application

Features

- The KERN ORF refractometers are accurate and universal maintenance free digital handheld refractometers
- The large display is easy to read. Mistakes in reading are avoided
- The typical and practical design is suitable for a quick and convenient everyday use and is characterized by its easy-using and robustness
- The KERN ORF range is protected to international IP65 protection class, against dust and water splashes. After use, you can rinse the refractometer under running water
- The large, easy-to-read TFT colour display with integrated temperature display supports the user to reliably determine the measurement
- A large selection of models is available with single or multiple scales. This allows the use in various applications

- The instrument comes with an optimized software that can show a result in different scales
- The integrated automatic temperature compensation (ATC), avoids the manual conversion of the measurement. This allows a quick and efficient usage of the instrument
- Due to the fact that the refractometer has been calibrated at the factory, this guarantees that it can be used immediately for accurately measuring your sample.
- The follwoing accessory-parts are included:
- Calibration liquid
- Pipette
- Storage box
- 2 × AAA batteries
- Leather bag
- Small screwdriver
- Cleaning tissue

Technical data

- Measurement temperature: 5 °C 40 °C
- Overall dimensions W×D×H 133×65×38 mm
- Net weight approx. 200 g
- Power supply: 2 × AAA (1,5 V)
- Lifetime of the battery: approx. 3.750 measurements
- ATC (Automatic Temperature Compensation)
- Minimum sample volume: 2-3 drops
- Automatic energy management (AUTO-OFF after 90 seconds)



Now also available with calibration certificate!





Model KERN	Scales	Measuring range	Division	ATC	Scope of application	Price excl. of VAT ex works €
ORF 45BM	Brix Refractive index	0 – 45 % 1,3330 – 1,4098 nD	± 0,2 % ± 0,0003 nD	0,1 % 0,0001 nD	Sugar	340,-
ORF 5UM	EG PG Urea CW	-50 - 0 °C -50 - 0 °C 0 - 40 % -40 - 0 °C	± 0,5 °C ± 0,5 °C ± 0,2 % ± 0,5 °C	0,1 °C 0,1 °C 0,1 % 0,1 °C	Industry/Automotive	340,-
ORF 1RS	Refractive index	1,3330 - 1,5400 nD	± 0,0005 nD	0,0001 nD	Expert applications	430,-

KERN & SOHN GmbH Balances, Test weights, Microscopes, DAkkS Calibration laboratory

Ziegelei 1 72336 Balingen Germany

Tel. +49 7433 9933-0 Fax +49 7433 9933-149

info@kern-sohn.com www.kern-sohn.com









1769

Ancestor Johann Jakob Sauter built the Hahn inclination scale out of iron, a foundation stone for weighing for the balance industry in Southern Germany



1844

KERN is founded – precision balances are produced



A proud Gottlieb Kern with his staff



1880Pharmaceutical balance

with Aesculap



Inflation – KERN wages are paid with self printed currency



1980

The electronic balance ousts mechanical devices



1994

Accredited DKD laboratory (ISO 17025)



2000

New premises in Balingen



2002

Existing QM system certification in accordance with DIN EN ISO 9001:2000 standards



2007

Approval for the manufacture of medical products (DIN EN 13485 and 93/42/EEC)



2008

Authorisation for initial verification by the manufacturer (2009/23/EC)



2009

Approval for the manufacture and sale of height rods (DIN EN 13485 and 93/42/EEC)



2012

Verification point for non-automatic balances and test weights.

New customer portal www.kern-sohn.com goes live



2014

Expansion of the product range to include optical instruments (microscopes and refractometers)



2015

Inauguration of Ziegelei 2.0 with computer-controlled high-bay warehouse



2017

Come with KERN into the digital future: Expansion of the model ranges compatible with Industry 4.0, as well as the related services



2019

Significant anniversary year for KERN 25 years of accredited DKD laboratory 175 years of KERN & SOHN 250 years of balance manufacture in the Sauter family-owned company