




















DISPLAY DEVICES/PLATFORMS/ WEIGHING BRIDGES

PROFESSIONAL
MEASURING



2020

KERN Pictograms

 Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)	 KERN Communication Protocol (KCP): It is a standardized interface command set for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers and other digital systems	 Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram. For details see page 62
 Adjusting program CAL: For quick setting up of the balance's accuracy. External adjusting weight required	 GLP/ISO log: The balance displays serial number, user ID, weight, date and time, regardless of a printer connection	 Stainless steel: The balance is protected against corrosion
 Easy Touch: Suitable for the connection, data transmission and control through PC, tablet or smartphone	 GLP/ISO log: With weight, date and time. Only with KERN printers, see page 171-173	 Suspended weighing: Load support with hook on the underside of the balance
 Memory: Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	 Piece counting: Reference quantities selectable. Display can be switched from piece to weight	 Battery operation: Ready for battery operation. The battery type is specified for each device
 Alibi memory: Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard. For details see page 223	 Recipe level A: The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out	 Rechargeable battery pack: Rechargeable set
 Data interface RS-232: To connect the balance to a printer, PC or network	 Recipe level B: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display	 Universal mains adapter: with universal input and optional input socket adapters for A) EU, CH, GB B) EU, CH, GB, USA C) EU, CH, GB, USA, AUS
 RS-485 data interface: To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible	 Recipe level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, multiplier function, adjustment of recipe when dosages are exceeded or barcode recognition	 Mains adapter: 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available
 USB data interface: To connect the balance to a printer, PC or other peripherals	 Totalising level A: The weights of similar items can be added together and the total can be printed out	 Power supply: Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request
 Bluetooth* data interface: To transfer data from the balance to a printer, PC or other peripherals	 Percentage determination: Determining the deviation in % from the target value (100 %)	 Weighing principle: Strain gauges Electrical resistor on an elastic deforming body
 WLAN data interface: To transfer data from the balance to a printer, PC or other peripherals	 Weighing units: Can be switched to e.g. nonmetric units at the touch of a key. See balance model. Please refer to KERN's website for more details	 Weighing principle: Tuning fork A resonating body is electromagnetically excited, causing it to oscillate
 Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.	 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	 Weighing principle: Electromagnetic force compensation Coil inside a permanent magnet. For the most accurate weighings
 Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements	 DAKkS calibration possible (DKD): The time required for DAKkS calibration is shown in days in the pictogram	 Weighing principle: Single cell technology: Advanced version of the force compensation principle with the highest level of precision
 Interface for second balance: For direct connection of a second balance	 Hold function: (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value	 Verification possible: The time required for verification is specified in the pictogram
 Network interface: For connecting the scale to an Ethernet network	 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
 Wireless data transfer: between the weighing unit and the evaluation unit using an integrated radio module		

KERN – measuring technology and testing services from a single source



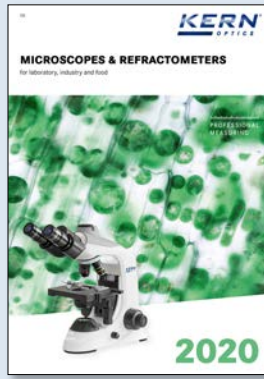
Balances & Test service catalogue

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



Medical scales catalogue

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



Microscopes & refractometers catalogue

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



SAUTER measuring equipment catalogue

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



DAkkS calibration service brochure

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

Your advantages

fast

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

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 EN ISO 9001
- Authorisation for initial verification by the manufacturer 2014/31/EU
- Medical certifications DIN EN ISO 13485 and 93/42/EWG

versatile

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



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+49 7433 9933-0



Online Shop
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Service hotline
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E-mail order
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Calibration hotline
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Fax order
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Our team of consultants will assist you
from Monday to Friday
from 8:00 am to 6:00 pm



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.

Display devices/Platforms/Weighing bridges

Putting together individual weighing systems which cannot be verified

KERN offers a range of KERN display devices and KERN weighing units, such as platform scales, floor scales, pallet scales and drive-through scales, which you can put together to make your ideal scale. You choose the components, KERN handles the rest.

Assembly

KERN delivers the complete scale which is ready to use. Prices for assembly can be found in the "Assembly" price table. On request we can also produce a calibration certificate in accordance with DAkkS/DKD at an additional price, see page 210 ff.

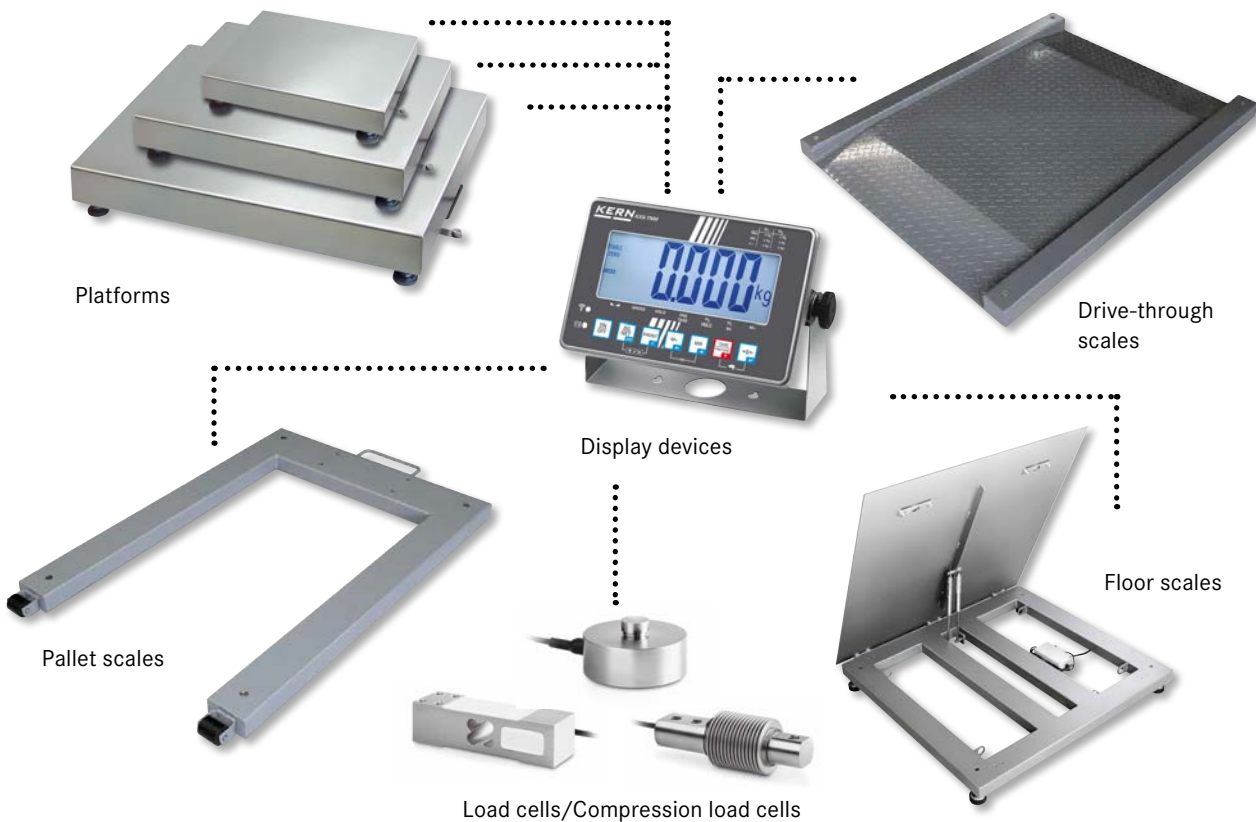
Putting together individual weighing systems which can be verified or are verified

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

In accordance with the European verification regulations, when assembling a display device with a weighing unit you must take the following notes into account:

- Only elements which can be verified with build-type approval or OIML test certificate can be combined into a weighing system which can be verified. With KERN these are labelled with "M".
- Platforms with load cells, provided as third-party products which have an OIML test certificate can be included.
- It will not be possible to carry out verification at a later date, e.g. after assembly and delivery of the weighing system. So please order the verification at the same time as you order the weighing system.

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



Florian Bächle

Product specialist
 Display devices/Platforms/Weighing bridges
 Tel. +49 7433 9933-118
 Fax +49 7433 9933-29118
 florian.baechle@kern-sohn.com

The individual KERN steps:

1. Proof of compatibility This is mandatory by law and includes testing by using build-type approvals, whether the connection values of the display device match the connection data of the weighing unit.	Weighing capacity	Model	Price excl. of VAT, ex works €
	0 up ... kg	KERN	
	all Weighing capacities	965-240	45,-
2. Assembly After testing for suitability using the proof of compatibility, the weighing system will be hard wired by KERN. The weighing system will then be tested in accordance with regulations of 2014/31/EU, the European directive for non-automatic weighing instruments and prepared for conformity assessment.	up ≤ 50 kg	965-411	70,-
	up ≤ 350 kg	965-412	100,-
	up ≤ 1500 kg	965-413	120,-
	up ≤ 2900 kg	965-414	150,-
	up ≤ 6000 kg	965-415	250,-
3. Initial verification by the manufacturer Conformity assessment ("Initial verification by the manufacturer") KERN is authorised to carry out the conformity assessment ("initial verification by the manufacturer") in accordance with 2014/31/EU, the European directive for non-automatic weighing instruments and is therefore authorised to introduce the weighing system onto the market, after the test has been carried out successfully and the conformity mark has been affixed.	up ≤ 5 kg	965-227	55,-
	up ≤ 50 kg	965-228	70,-
	up ≤ 350 kg	965-229	93,-
	up ≤ 1500 kg	965-230	132,-
	up ≤ 2900 kg	965-231	150,-
	up ≤ 6000 kg	965-232	200,-
4. Declaration of conformity KERN issues this after the initial verification by the manufacturer. Conformity assessment has been carried out successfully and sends it with the weighing system at no additional cost, and it can be used in areas regulated by law.			

Modifications and special services

Description	Model	Price excl. of VAT, ex works €
Cable extensions for platform scales with build-type approval		
up to 4 m extension	965-403	45,-
up to 7 m extension	965-404	60,-
up to 10 m extension	965-405	75,-
Cable extensions for platform scales without build-type approval		
up to 4 m extension	920-403	45,-
up to 7 m extension	920-404	60,-
up to 10 m extension	920-405	75,-
Setting an individual preload		
Balance with build-type approval	965-401	50,-
Balance without build-type approval	920-406	60,-
Other adjustments in the balance or software changes	965-407	95,-/h
Plug connection (replaces the fixed cable connection between the display device and platform with a plug connection which can be disconnected)		
balances with type approval and verification (according to time spent)	only possible with separable, verifiable plug connection with identification chip (e.g. KERN KIB-A12), for the corresponding models (e.g. IOC, BID UID) please order when purchasing	
balances with type approval, no verification	965-406	60,-

Order example

	Model	Price excl. of VAT, ex works €
KFP 30V20M platform and KEN-TM display device with cable extension (4 m) and setting an individual preload.	KERN	
KERN platform	KFP 30V20M	230,-
KERN display device	KFN-TM	290,-
Proof of compatibility	965-240	45,-
Cable extension	965-403	45,-
Setting the preload	965-401	50,-
Assembly	965-411	70,-
Verification at the factory KERN	965-228	70,-
Complete scale (verified)		800,-



1 KERN KFB-TM

Display device with large digits
– easy to read

2 KERN KFS-TM

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

Note

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

Note

to see what options are offered by this display device, please see the KERN counting scale IFS on page 86

STANDARD

CAL EXT, RS 232, KCP, GLP, PCS, SUM, UNIT, TOL

STANDARD OPTION FACTORY

MOVE, MULTI, 1 DAY, ACCU, BT 2.0, ANALOG, M

STANDARD

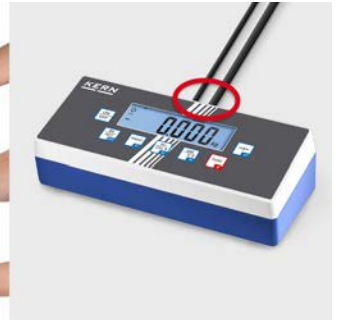
CAL EXT, MEMORY, RS 232, KCP, GLP, INTERN, PCS, SUM, PERCENT

STANDARD OPTION FACTORY

UNIT, TOL, MULTI, 1 DAY, ACCU, M

* not possible in combination with verification
** not possible in combination with signal lamp

Features	Model KERN	
	1 KFB-TM	2 KERN KFS-TM
Display (segments)	5 + ½ digits	6 digits
EC type approval	yes	yes
Resolution verifiable	6000 e	3000 e
Resolution non verifiable	30000 d	60000 d
Weighing capacities	≤ 2	≤ 2
Weighing units	kg, lb	kg, g
Readability	1, 2, 5, 10, n	1, 2, 5, 10, n
Piece counting with reference	10, 20, 50, 100, 200	n
Display, digit height	Backlit LCD display, 52 mm	Backlit LCD displays, 13/16,5 mm
Additional functions	Totalising, HOLD function	99 item memories, totalising, printing of date and time
Strain gauge load cells	87 – 1600 Ω	87 – 1600 Ω
Linearisation	3 points	4 points
Input voltage	12 V, 500 mA	12 V, 500 mA
Permissible ambient temperature	-10 °C/40 °C	0 °C/40 °C
Interface RS-232	yes	yes
2. Interface RS-232, separate Y cable	CFS-A04, € 35,-	CFS-A04, € 35,-
Interface RS-485	-	-
Interface USB	-	-
Interface Bluetooth	KERN KFB-A03, see page 103, € 130,-	-
Analogue module	0-10V: KERN KFB-A04, € 95,-; 4-20 mA: KERN KFB-A05, € 95,-; see page 103	-
Signal lamp	CFS-A03, € 250,-	CFS-A03, € 250,-
Foot switch	-	-
Stand	BFS-A07, see page 103, € 120,-	BFS-A07, see page 86, € 120,-
Benchtop stand for display device/wall mount	yes/yes	yes/yes
Protective working cover	KFB-A02S05, see page 103, € 40,-	KFB-A02S05, see page 86, € 40,-
Rechargeable battery pack	KFB-A01, see page 103, € 35,-	KFS-A01, see page 86, € 35,-
Operating/charging time	up to 35 h/12 h	up to 40 h/12 h
Dimensions Housing W×D×H	250×160×65 mm	260×150×65 mm
Net weight	1,2 kg	1,5 kg
Price excl. of VAT, ex works €	190,-	210,-



3 KERN KIB-TM

Practical Flip/Flop display device for greatest ease of use

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, € 95,-

Industry 4.0: A large number of (optional) data interfaces enable convenient Transferring weighing data to tablets, laptops, PCs, networks, smartphones, printers, etc.

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 RS-232 data interface, other interfaces on request.

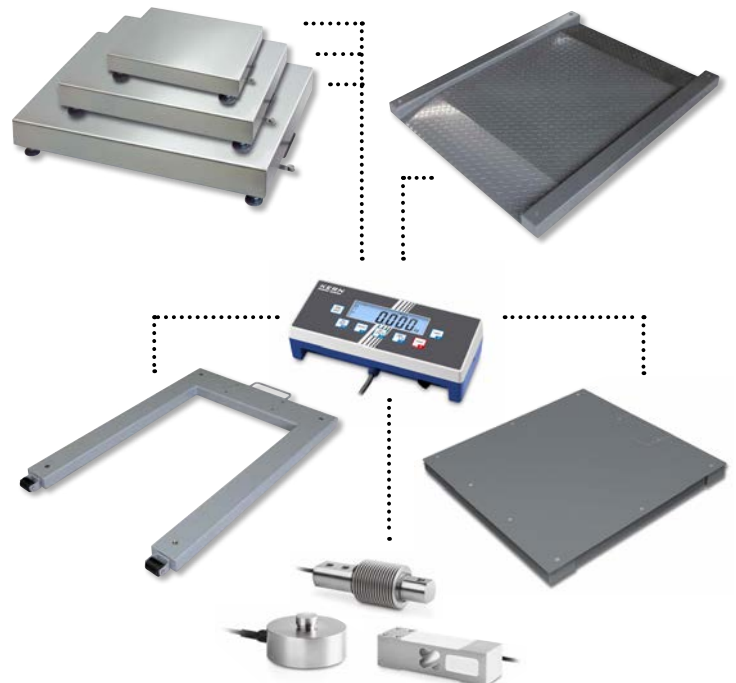
In the KERN product range you will find a large number of platforms, weighbridges etc. which you can combine with the KERN KIB-TM display device. Simply select the components, KERN will take care of the rest.

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

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

STANDARD												OPTION		FACTORY									
													**	**	**	**	**	*					

Features	Model KERN
	3 KIB-TM
Display (segments)	6 digits
EC type approval	yes
Resolution verifiable	6000 e
Resolution non verifiable	60000 d
Weighing capacities	≤ 2
Weighing units	kg, g
Readability	1, 2, 5, 10, n
Piece counting with reference	5, 10, 20, 25, 50, 100
Display, digit height	Backlit LCD display, 24 mm
Additional functions	Totalising, HOLD function, printing of time. KCP Only possible through RS-232; USB, Bluetooth, WLAN, Digital I/O, LAN on request
Strain gauge load cells	87-1100 Ω
Linearisation	3 points
Input voltage	12 V DC, 1000 mA
Permissible ambient temperature	-10 °C/40 °C
Interface RS-232	yes
Interface RS-485	-
Interface USB	KIB-A03**, see page 102, € 120,-
Interface Bluetooth	KIB-A04**, see page 102, € 110,-
WLAN	KIB-A10**, see page 102, € 55,-
SWITCH (DIGITAL I/O)	-
LAN	KIB-A02**, see page 102, € 150,-**
Alibi memory	KIB-A01, € 95,-
Stand	EOC-A05, see page 102, € 60,-
Benchtop stand for display device/wall mount	EOC-A04, € 30,-
Protective working cover	EOC-A01S05, € 40,-
Rechargeable battery pack	KFB-A01, see page 102, € 35,-
Operating/charging time	up to 43 h/3 h
Dimensions Housing W×D×H	268×115×70 mm
Net weight	0,8 kg
Price	190,-
excl. of VAT, ex works €	



Note

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



4 KERN KFE-TM

Stainless steel display device with IP65 protection

5 KERN KFN-TM

Stainless steel display device with IP65 protection and superior display size

6 KERN KXS-TM

Stainless steel display device with IP68 protection and integrated power supply

Note

to see what options are offered by this display device, please see the KERN SFE platform scale on page 105

Note

to see what options are offered by this display device, please see the KERN SFB platform scale on page 72

Note

to see what options are offered by this display device, please see the KERN SXS platform scale on page 73

STANDARD

STANDARD

FACTORY

STANDARD

STANDARD

OPTION

FACTORY

STANDARD

STANDARD

OPTION

FACTORY

**

** not possible in combination with verification

Features	Model KERN		
	4 KFE-TM*	5 KFN-TM	6 KXS-TM
Display (segments)	6 digits	5 + 1/2 digits	6 digits
EC type approval	yes	yes	yes
Resolution verifiable	6000 e	6000 e	10000 e
Resolution non verifiable	30000 d	30000 d	30000 d
Weighing capacities	≤ 2	≤ 2	≤ 2
Weighing units	kg	kg	kg, g
Readability	1, 2, 5, 10, n	1, 2, 5, 10, n	1, 2, 5, 10, 50
Piece counting with reference	-	10, 20, 50, 100, 200	10, 20, 50, 100, 200
Display, digit height	Backlit LCD display, 22 mm	Backlit LCD display, 52 mm	Backlit LCD display, 55 mm
Additional functions	-	Totalising, HOLD function	PRE-Tare function, totalising, HOLD function, peak hold, zero-point memorisation
Strain gauge load cells	87 – 1200 Ω	87 – 1600 Ω	87 – 1600 Ω
Linearisation	2 points	2 points	2-7 points
Input voltage	12 V, 500 mA	12 V, 500 mA	220-240 V AC
Permissible ambient temperature	-10 °C/40 °C	-10 °C/40 °C	-10 °C/40 °C
Interface RS-232	-	KFN-A01, see page 72, € 95,-	KXS-A04, € 100,-
Interface RS-485	-	-	KXS-A01, € 145,-
Interface USB	-	-	-
Interface Bluetooth	-	-	KXS-A02, € 170,- (balance ► PC)
Foot switch	-	-	KXS-A03, € 130,-
Stand	-	BFS-A07, see page 72, € 120,-	YKP-02, € 190,-
Benchtop stand for display device/wall mount	yes/yes	yes/yes	yes/yes
Protective working cover	-	-	-
Rechargeable battery pack	standard	GAB-A04, € 40,-	GAB-A04, € 40,-
Operating/charging time	up to 45 h/12 h	up to 35 h/12 h	bis zu 80 h/12 h
Dimensions Housing W×D×H	195×118×83 mm	266×165×96 mm	232×170×80 mm
Net weight	1 kg	2,6 kg	2,5 kg
Price excl. of VAT, ex works €	250,-	290,-	300,-

* ONLY WHILE STOCKS LAST!



1 KERN KFP-V20 IP65

Platform

STANDARD FACTORY

IP 65 1 DAY 1 DAY KFP 600

M

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

2 KERN KXP-V20 IP65

Platform

STANDARD FACTORY

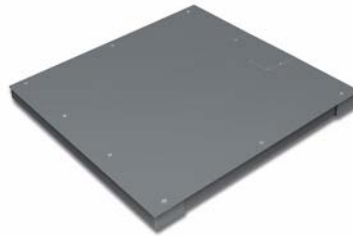
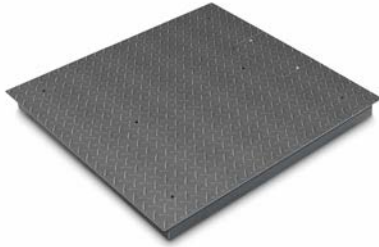
IP 65 1 DAY

M

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



Model	Weighing range [Max] kg	Readability [d] g	Verification value [e] g	Min. load [Min] g	Cable length approx. m	Net weight approx. kg	Weighing plate W×D×H mm	Price excl. VAT, ex works €
1 Platform KFP-V20 IP65								
KFP 3V20M	3	0,1	1	20	2,5	3,6	230×230×110	160,-
KFP 6V20M	6	0,2	1 2	40	2	3,6	230×230×110	170,-
KFP 6V20LM	6	0,2	1 2	40	2,5	6	300×240×110	190,-
KFP 15V20M	15	0,5	2 5	100	2	6	300×240×110	190,-
KFP 15V20LM	15	0,5	2 5	100	2,5	10	400×300×128	230,-
KFP 30V20SM	30	10	10	200	2,5	6	300×240×110	195,-
KFP 30V20M	30	1	5 10	200	2	10	400×300×128	230,-
KFP 60V20M	60	2	10 20	400	2	10	400×300×128	230,-
KFP 60V20LM	60	2	10 20	400	2	10	500×400×137	290,-
KFP 150V20M	150	5	20 50	1000	2	10	500×400×137	290,-
KFP 150V20LM	150	5	20 50	1000	2	22	650×500×135	510,-
KFP 300V20M	300	10	50 100	2000	2	22	650×500×135	510,-
KFP 600V20AM	600	200	200	4000	2,5	46	800×600×150	780,-
2 Platform KXP-V20 IP65								
KXP 15V20M	15	0,5	2 5	100	3	3,2	300×240×90	230,-
KXP 6V20LM	6	0,2	1 2	40	3	3,2	300×240×90	220,-
KXP 15V20LM	15	5	5	100	3	8	400×300×90	320,-
KXP 30V20M	30	1	5 10	200	3	8	400×300×89	320,-
KXP 30V20LM	30	1	5 10	200	3	18	500×400×123	450,-
KXP 60V20M	60	2	10 20	400	3	11	400×300×89	330,-
KXP 60V20LM	60	2	10 20	400	3	22	500×400×123	460,-
KXP 150V20M	150	5	20 50	1000	3	18	500×400×123	450,-
KXP 150V20LM	150	5	20 50	1000	3	34	650×500×133,5	540,-
KXP 300V20M	300	10	50 100	2000	3	34	650×500×133,5	540,-



3 KERN KIP-V20M

Weighing bridge



- Weighing bridge with non-slip chequer plate, lacquered, welded
- **4 Load cells, steel, silicone-coated, IP67, OIML-R60-approval for verification, class III, 3000 e**
- Can be built in using pit frames (optional)
- **Level indicator and levelling feet** for precise levelling of the scale
- **Easy access to the junction box** from the top
- **Comfortable levelling of the weighing bridge** from the top
- Accessories page 116/117 (KERN BID)

4 KERN KFP-V20 IP67

Weighing bridge



- **Weighing plate screwed on from the top (models with [Max] ≤ 1500 kg)**, so it easy to remove, hygienic and easy to clean.
- **Lacquered steel weighing bridge**, weighing plate size 1500×1500×130 mm corrugated steel plate. Extremely resistant to bending due to material thickness
- **4 Load cells, steel, silicone-coated, IP67, OIML-R60-approval for verification, class III, 3000 e**
- Can be built in using pit frames (optional)
- **Level indicator and levelling feet** for precise levelling of the scale
- **Easy access to the junction box** from the top
- **Comfortable levelling of the weighing bridge** from the top
- Accessories page 118/119 (KERN BFB)

5 KERN KFD-V20

Weighing bridge



- **Weighing bridge made of non-slip corrugated steel plate**, lacquered, two access ramps integrated, extremely resistant to bending
- Extremely flat construction to facilitate access: access height only 45 mm
- **4 Load cells, alloy steel, silicone-coated, IP67, OIML-R60-approval** class III, 3000 e
- Accessories page 130 (KERN NFB)



Model	Weighing range [Max] kg	Readability [d] g	Verification value [e] g	Min. load [Min] g	Cable length approx. m	Net weight approx. kg	Weighing plate W×D×H mm	Price excl. VAT, ex works €
3 Weighing bridge KIP-V20M								
KIP 600V20SM	600	200	200	4000	5	130	1000×1000×108	970,-
KIP 600V20M	600	200	200	4000	5	150	1500×1200×108	1200,-
KIP 1500V20SM	1500	500	500	10000	5	130	1000×1000×108	1230,-
KIP 1500V20EM	1500	500	500	10000	5	140	1250×1000×108	1070,-
KIP 1500V20M	1500	500	500	10000	5	150	1500×1250×108	1440,-
KIP 3000V20M	3000	1000	1000	20000	5	150	1500×1250×108	1240,-
KIP 3000V20LM	3000	1000	1000	20000	5	180	1500×1500×108	1420,-
4 Weighing bridge KFP-V20 IP67								
KFP 600V20SNM	600	200	200	4000	5	105	1000×1000×80	1050,-
KFP 600V20NM	600	200	200	4000	5	135	1500×1250×80	1520,-
KFP 1500V20SNM	1500	500	500	10000	5	105	1000×1000×80	1050,-
KFP 1500V20NM	1500	500	500	10000	5	135	1500×1250×80	1440,-
KFP 1500V20LNM	1500	500	500	10000	5	185	1500×1500×130	1550,-
KFP 3000V20NM	3000	1000	1000	20000	5	135	1500×1250×80	1440,-
KFP 3000V20LM	3000	1000	1000	20000	5	155	1500×1500×80	1650,-
KFP 6000V20M	6000	2000	2000	40000	5	210	1500×1500×130	1930,-
5 Weighing bridge KFD-V20								
KFD 600V20M	600	200	200	4000	5	125	1600×1200×78	1400,-
KFD 600V20LM	600	200	200	4000	5	155	1800×1400×80	1600,-
KFD 1500V20M	1500	500	500	10000	5	125	1600×1200×78	1300,-
KFD 1500V20LM	1500	500	500	10000	5	175	1800×1400×78	1600,-

Price reduction



6 KERN KFA-V20

Weighing beams

STANDARD
 IP 67
 2 DAYS

- Weighing beams and painted steel base
- 4 load cells, alloy steel, silicone-coated, IP67
- Levelling feet for precise levelling of the weighing beams
- **D** Image below: Version up to 6 t available. Each weighing beam has a roller and handle for easy transport of the scale (KERN KFA-L)
- **NEW:** new model with short weighing beams, ideal for weighing compact items or animals in transport boxes
 ▶ KERN KFA-600V20S
- Accessories page 124 (KERN UFA)

7 KERN KFU-V20/V30

U-Weighing bridge

STANDARD
 IP 67
 INOX
 2 DAYS
 KFU-V30

FACTORY
 M

- Load range: painted steel (V20), stainless steel (V30) height 90 mm
- 4 load cells, alloy steel, silicone-coated, IP67, OIML-R60-approval for verification, class III, 3000 e
- 2 rollers and handle for easy transport of the scale
- Accessories KFU-V20 page 127 (KERN UFB)
- Accessories KFU-V30 page 129 (KERN UFN)

8 KERN KFP-V30

Platform

STANDARD
 IP 67
 INOX
 2 DAYS

FACTORY
 M

- **Stainless steel-weighing plate,**
 E Stainless steel substructure
- 1 load cell, Stainless steel, silicone-coated, IP67, OIML-approved, class III, 3000 e
- Level indicator and levelling feet for precise levelling of the scale



Model	Weighing range [Max] kg	Readability [d] g	Verification value [e] g	Min. load [Min] g	Cable length approx. m	Net weight approx. kg	Weighing plate W×D×H mm	Price excl. VAT, ex works €
6 Weighing beams KFA-V20								
KFA 600V20S	600	200	-	-	5	30	800×120×100	690,-
KFA 1500V20	1500	500	-	-	5	36	1200×120×100	760,-
KFA 3000V20	3000	1000	-	-	5	36	1200×120×100	780,-
KFA 3000V20L	3000	1000	-	-	5	65	2000×120×100	1150,-
KFA 6000V20	6000	2000	-	-	5	85	1200×160×80	1220,-
KFA 6000V20L	6000	2000	-	-	5	125	2100×160×85	1550,-
7 U-Weighing bridge KFU-V20								
KFU 600V20M	600	200	200	4000	5	55	840×1300×90	830,-
KFU 1500V20M	1500	500	500	10000	5	55	840×1300×90	830,-
7 Stainless steel U-Weighing bridge KFU-V30								
KFU 600V30M*	600	200	200	4000	2,5	55	840×1300×90	1240,-
KFU 1500V30M*	1500	500	500	10000	2,5	55	840×1300×90	1540,-
8 Stainless steel platform KFP-V30								
KFP 15V30M	15	0,5	5	100	2,5	5,0	300×240×100	490,-
KFP 30V30SM	30	10	10	200	2,5	5,0	300×240×100	490,-
KFP 30V30M	30	1	10	200	2,5	10	400×300×128	540,-
KFP 60V30M	60	2	20	400	2,5	10	400×300×128	550,-
KFP 60V30LM	60	2	20	400	2,5	10	500×400×137	650,-
KFP 60V30XLM	60	2	20	400	2,5	22	650×500×142	990,-
KFP 150V30SM	150	5	50	1000	2,5	10	400×300×128	540,-
KFP 150V30M	150	5	50	1000	2,5	10	500×400×137	660,-
KFP 150V30LM	150	5	50	1000	2,5	22	650×500×135	990,-
KFP 300V30M	300	10	100	2000	2,5	22	650×500×135	990,-

* ONLY WHILE STOCKS LAST!

Price reduction



9 KERN KFP-V40

Weighing bridge

STANDARD FACTORY

IP 68 INOX 2 DAYS M

- Weighing bridge entirely made of **stainless steel**, extremely resistant to bending because of its high material thickness
- **F** Weighing plate fixed with stainless steel screws, for easier access to the loadcells from above
- **4 load cells, stainless steel, encapsulated, IP68, OIML-R60-approved**, class III, 3000 e
- Can be built in using pit frames (optional)
- **Level indicator and levelling feet** for precise levelling of the scale
- **Comfortable levelling of the weighing bridge** from the top
- Accessories page 121 (KERN BFN)

10 KERN KFD-V40

Weighing bridge

STANDARD FACTORY

IP 68 INOX 2 DAYS M

- Weighing bridge made from **stainless steel**, two integrated access ramps, extremely resistant to bending
- Extremely flat construction to facilitate access: access height only 45 mm
- **4 load cells, stainless steel, encapsulated IP68, OIML-R60-approval for verification**, class III, 3000 e
- **Level indicator and levelling feet** for precise levelling of the scale
- Accessories page 131 (KERN NFN)

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



Model	Weighing range [Max] kg	Readability [d] g	Verification value [e] g	Min. load [Min] g	Cable length approx. m	Net weight approx. kg	Weighing plate W×D×H mm	Price excl. VAT, ex works €
9 Stainless steel weighing bridge KFP-V40								
KFP 600V40SM	600	200	200	4000	5	95	1000×1000×80	2400,- ↓
KFP 1500V40M	1500	500	500	10000	5	135	1500×1250×80	3000,- ↓
KFP 1500V40SM	1500	500	500	10000	5	95	1000×1000×80	2400,- ↓
KFP 3000V40M	3000	1000	1000	20000	5	135	1500×1250×80	3000,- ↓
10 Stainless steel weighing bridge KFD-V40								
KFD 600V40M	600	200	200	4000	5	130	1600×1200×78	2700,- ↓
KFD 1500V40M	1500	500	500	10000	5	130	1600×1200×78	2700,- ↓

ONLY WHILE STOCKS LAST! Price reduction

Load cells

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

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

Any special requests? Do you need special load cells, other capacities or cable lengths, individual force test benches or a special mount for your test item? No problem, our product specialist for force-measuring cells Mr Stefan Herrmann is available at any time to help you further and will work with you to develop a customised concept for your application.

Your contact for technical questions



Stefan Herrmann

Tel. +49 7433 9933-214

Fax +49 7433 9933-29214

stefan.herrmann@kern-sohn.com

FORCE MEASUREMENT

Load cell + SAUTER FL + Software



BALANCE MANUFACTURE

Load cell + KERN YKV + KERN Software BalanceConnection



BALANCE MANUFACTURE

Load cell + Junction Box + KERN YKV



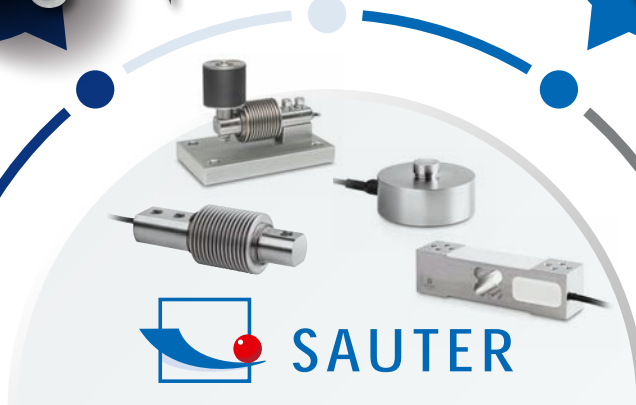
BALANCE MANUFACTURE

Load cell + display device



BALANCE MANUFACTURE

Load cell + Junction Box + display device

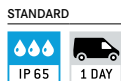


SAUTER Mess measuring cells – integration opportunities



CP P4

Single-point load cells made of anodised aluminium



- CE and RoHS compliant
- Accuracy class L
- Dust and spray protection to IP65 (in accordance with EN 60529)
- Aluminium, anodised
- Suitable for price-computing scales, bench scales, platform scales, etc.
- Maximum platform size 200×200 mm
- 4-wire connection
- Nominal sensitivity: 0,9 mV/V

CP P1

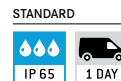
Single-point load cells made of anodised aluminium



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

CP P3

Single-point load cells made of anodised aluminium



- Accuracy in accordance with OIML R60 C3
- CE and RoHS compliant
- Dust and spray protection to IP65 (in accordance with EN 60529)
- Suitable for price-computing scales, bench scales, platform scales, etc.
- Maximum platform size 350×400 mm
- 4-wire connection
- Nominal sensitivity: 2 mV/V
- Note: Version in accordance with OIML R60 C4 on request

Model	Nominal load	Price excl. of VAT ex works €
KERN	kg	
CP 300-0P4	0,3	60,-
CP 600-0P4	0,6	60,-

Model	Nominal load	Price excl. of VAT ex works €
KERN	kg	
CP 3-3P1	3	50,-
CP 5-3P1	5	50,-
CP 6-3P1	6	50,-
CP 8-3P1	8	50,-
CP 10-3P1	10	50,-
CP 15-3P1	15	50,-
CP 20-3P1	20	50,-
CP 30-3P1	30	50,-
CP 35-3P1	35	50,-
CP 40-3P1	40	50,-
CP 50-3P1	50	50,-

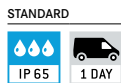
Model	Nominal load	Price excl. of VAT ex works €
KERN	kg	
CP 50-3P3	50	65,-
CP 75-3P3	75	65,-

! Tip: Further details and technical data sheet as well as extensive accessories can be found at www.kern-sohn.com



CP P2

Single-point load cells of aluminium



- Accuracy in accordance with OIML R60 C3
- Dust and spray protection to IP65 (in accordance with EN 60529)
- Aluminium, anodised
- Suitable for price-computing scales, bench scales, etc.
- Maximum platform size 100–300 kg: 400×400 mm
- Maximum platform size 400–500 kg: 450×450 mm
- Nominal sensitivity: 2 mV/V
- Note: Version in accordance with OIML R60 C4 or C5 on request

CP P9

Single-point load cells of stainless steel



- Accuracy in accordance with OIML R60 C3
- Dust and spray protection to IP68/IP69K (in accordance with EN 60529), welded to create a hermetic seal
- Stainless steel
- Area of application: Measuring mass as well as compressive force in harsh environments
- Suitable for platform scales, checkweighers
- Maximum platform size 10–50 kg: 400×400 mm
- Maximum platform size 100–500 kg: 800×800 mm
- 4-wire connection (10–50 kg)
- 6-wire connection (100–500 kg)
- Nominal sensitivity: 2 mV/V
- Note: Version in accordance with OIML R60 C4 or C5 on request

12

Model	Nominal load	Price excl. of VAT ex works €
KERN	kg	
CP 100-3P2	100	70,-
CP 150-3P2	150	70,-
CP 200-3P2	200	70,-
CP 300-3P2	300	70,-
CP 400-3P2	400	70,-
CP 500-3P2	500	70,-

Model	Nominal load	Price excl. of VAT ex works €
KERN	kg	
CP 10-3P9	10	330,-
CP 20-3P9	20	330,-
CP 50-3P9	50	330,-
CP 100-3P9	100	500,-
CP 200-3P9	200	500,-
CP 300-3P9	300	500,-
CP 400-3P9	400	500,-
CP 500-3P9	500	500,-



Tip: Further details and technical data sheet as well as extensive accessories can be found at www.kern-sohn.com



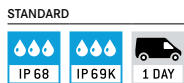
Fig. shows accessories, base plate 1 SAUTER CE Q30903 and bearings 2 SAUTER CE Q30904, for further accessories please visit our online shop



Fig. shows optional accessory load corner 3 SAUTER CE P4022

CB Q1 · CB Q2

Bending beam measuring cells made from stainless steel



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

Model	Nominal load	Price excl. of VAT ex works €
KERN	kg	
CB 5-3Q1	5	185,-
CB 10-3Q1	10	185,-
CB 20-3Q1	20	185,-
CB 30-3Q1	30	185,-
CB 50-3Q1	50	185,-
CB 75-3Q1	75	185,-
CB 100-3Q1	100	185,-
CB 150-3Q1	150	185,-
CB 200-3Q1	200	185,-
CB 250-3Q1	250	185,-
CB 300-3Q1	300	185,-
CB 500-3Q1	500	185,-
CB 750-3Q2	750	195,-
CB 1000-3Q2	1000	195,-
CB 1500-3Q2	1500	195,-

CB P1

Bending beam made from stainless steel



- Accuracy in accordance with OIML R60 C3
- CE and RoHS compliant
- Dust and spray protection to IP67 (in accordance with EN 60529), hermetically encapsulated
- Nickel-plated steel
- Area of application: Measuring mass as well as compressive force in harsh environments
- Suitable for platform scales, silo scales, bed scales and other diverse scales
- 4-wire connection
- Nominal sensitivity: 3 mV/V

Model	Nominal load	Price excl. of VAT ex works €
KERN	kg	
CB 100-3P1	100	100,-
CB 250-3P1	250	100,-

Accessories CB Q1 · CB Q2:

- Traction device, steel, galvanised, suitable for CB Q1, SAUTER CE Q30901, € 75,-
- Traction device, steel, rustproof, suitable for CB Q2, SAUTER CE Q34905, € 80,-
- 1 Base plate, steel, galvanised, suitable for CB Q1, SAUTER CE Q30903, € 90,-
- Base plate, steel, rustproof, suitable for CB Q1, SAUTER CE RQ30903, € 175,-
- Base plate, steel, rustproof, suitable for CB Q2, SAUTER CE Q34903, € 85,-
- 2 Bearing, steel, rustproof, suitable for CB Q1 (nominal load 5 kg–50 kg), SAUTER CE Q30904, € 105,-
- Bearing, steel, rustproof, suitable for CB Q1 (nominal load 75 kg–300 kg), SAUTER CE Q30905, € 105,-
- Bearing, steel, rustproof, suitable for CB 500-3Q1, SAUTER CE Q30906, € 180,-
- Bearing, steel, rustproof, suitable for CB 750-3Q2, CB 1000-3Q2, CB 1500-3Q2, SAUTER CE Q34906, € 165,-
- Load corner, steel, galvanised, suitable for CB Q1, SAUTER CE Q30907, € 195,-
- Load corner, steel, rustproof, suitable for CB Q1, SAUTER CE RQ30907, € 280,-
- Adjustable foot, steel, rustproof, suitable for SAUTER CE Q34901, € 60,-

Accessories CB P1:

- Adjustable foot, steel, nickel-plated, load base M12 for CT 500-3P1, CT 1000-3P1 and CT 1500-3P1, SAUTER CE P2012, € 22,-
- 3 Load corner, steel, nickel-plated for CT 500-3P1, CT 1000-3P1 and CT 1500-3P1, SAUTER CE P4022, € 115,-
- Spacer plates for bending beam CB P1 made from steel, SAUTER CE P3012, € 8,-

! Tip: Further details and technical data sheet as well as extensive accessories can be found at www.kern-sohn.com



Fig. shows optional accessory load corner 1 SAUTER CE RQ35903

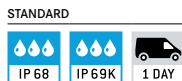


Fig. shows optional accessory load corner 2 SAUTER CE P4022



CT Q1

Shear beam made from stainless steel



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

CT P1 · CT P2

Shear beam made from stainless steel



- Accuracy in accordance with OIML R60 C3
- CE and RoHS compliant
- Dust and spray protection to IP67 (in accordance with EN 60529), welded to create a hermetic seal
- Nickel-plated steel
- Area of application: Measuring mass as well as compressive force in harsh environments
- Suitable for platform scales, weigh hoppers, flush-mounted floor scales and other weighing devices
- 4-wire connection
- Nominal sensitivity: 3 mV/V
- Note: EX version, 6-wire connection and accuracy class C4 or C5 on request
- **CT P2:** Delivery with calibrated characteristic value, if several cells are ordered

Accessories CT Q1:

- Base plate, steel, rustproof, suitable for CT Q1, SAUTER CE RQ35911, **€ 185,-**
- Base plate, steel, rustproof, suitable for CT 3000-3Q1, CT 5000-3Q1, SAUTER CE RQ35912, **€ 355,-**
- Base plate, steel, rustproof, suitable for CT 7500-3Q1, CT 10000-3Q1, SAUTER CE RQ35919, **€ 780,-**
- Bearing, steel, rustproof, suitable for CT Q1, SAUTER CE RQ35909, **€ 135,-**
- Bearing, steel, rustproof, suitable for CT 3000-3Q1, CT 5000-3Q1, SAUTER CE RQ35910, **€ 260,-**
- Bearing, steel, rustproof, suitable for CT 7500-3Q1, CT 10000-3Q1, SAUTER CE RQ35918, **€ 600,-**
- Load corner, steel, rustproof, suitable for CT Q1, SAUTER CE RQ35902, **€ 350,-**
- 1 Load corner, steel, rustproof, suitable for CT 3000-3Q1, CT 5000-3Q1, SAUTER CE RQ35903, **€ 515,-**

Accessories CT P1:

- Load corner, steel, rustproof, suitable for CT 10000-3P1, CT 10000-3P2, SAUTER CE P40210, **€ 385,-**
- 2 Load corner, steel, nickel-plated, suitable for CT 500-3P1, CT 1000-3P1, CT 1500-3P1, SAUTER CE P4022, **€ 115,-**
- Load corner, steel, nickel-plated, suitable for CT 2500-3P1, CT 3000-3P1, CT 5000-3P1, SAUTER CE P4025, **€ 200,-**
- Adjustable foot, steel, rustproof, suitable for CT 500-3P1, CT 1000-3P1, CT 1500-3P1, SAUTER CE P2012, **€ 22,-**
- Adjustable foot, steel, rustproof, suitable for CT 2500-3P1, CT 3000-3P1, CT 5000-3P1, SAUTER CE P2018, **€ 29,-**
- Adjustable foot, steel, rustproof, suitable for CT 10000-3P1, SAUTER CE P2024, **€ 85,-**
- Spacer plate for CT 500-3P1, CT 500-3P2, CT 1000-3P1, CT 1000-3P2 and CT 1500-3P1, SAUTER CE P3012, **€ 8,-**
- Spacer plate for CT 2500-3P1, CT 3000-3P1, CT 3000-3P2, CT 5000-3P1 and CT 5000-3P2 SAUTER CE P3015, **€ 8,-**
- Spacer plate for CT 10000-3P1 and CT 10000-3P2 SAUTER CE P30110, **€ 8,-**

Model	Nominal load	Price
KERN	kg	excl. of VAT ex works €
CT 300-3Q1	300	180,-
CT 500-3Q1	500	180,-
CT 750-3Q1	750	180,-
CT 1000-3Q1	1000	180,-
CT 1500-3Q1	1500	180,-
CT 2000-3Q1	2000	180,-
CT 3000-3Q1	3000	340,-
CT 5000-3Q1	5000	340,-
CT 7500-3Q1	7500	450,-
CT 10000-3Q1	10000	450,-

Model	Nominal load	Price
KERN	kg	excl. of VAT ex works €
CT 500-3P1	500	90,-
CT 1000-3P1	1000	90,-
CT 1500-3P1	1500	90,-
CT 2500-3P1	2500	110,-
CT 3000-3P1	3000	110,-
CT 5000-3P1	5000	110,-
CT 10000-3P1	10000	160,-
CT 500-3P2	500	95,-
CT 1000-3P2	1000	95,-
CT 3000-3P2	3000	115,-
CT 5000-3P2	5000	115,-
CT 10000-3P2	10000	165,-

! Tip: Further details and technical data sheet as well as extensive accessories can be found at www.kern-sohn.com



CK P1



CK P2



CK P3



CK P4



CJ P4



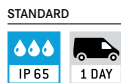
CJ P6



CJ P4PG

CK P1-4

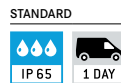
Miniature load cells made of aluminium



- Dust and spray protection to IP65 (in accordance with EN 60529)
- Aluminium
- High level of accuracy
- Suitable for small scales and kitchen scales and force-measuring devices
- 4-wire connection

CJ P

Junctionbox CJ P for connecting several measuring cells to one evaluation unit



- Prepared for 4-wire and 6-wire measuring cells
- Models available for 2, 4, 6 or 8 load cells
- Robust aluminium die-cast housing with protection against dust and spray to IP65

Model	Nominal load kg	Price excl. of VAT ex works €
KERN		
CK 600-0P1	0,6	27,-
CK 1-0P1	1	27,-
CK 2-0P1	2	27,-
CK 3-0P1	3	28,-
CK 5-0P1	5	27,-
CK 6-0P1	6	27,-
CK 300-0P2	0,3	41,-
CK 600-0P2	0,6	41,-
CK 1000-0P3	1	24,-
CK 100-0P4	0,1	35,-
CK 120-0P4	0,12	35,-
CK 300-0P4	0,3	35,-
CK 500-0P4	0,5	35,-

Model	Number of connections	Price excl. of VAT ex works €
KERN		
CJ P2	2	75,-
CJ P4	4	75,-
CJ P4PG	4	80,-
CJ P6	6	95,-
CJ P8	8	95,-

! Tip: Further details and technical data sheet as well as extensive accessories can be found at www.kern-sohn.com

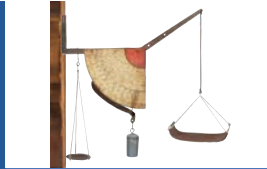
KERN & SOHN GmbH
Balances, Test weights, Microscopes,
DAkkS calibration laboratory

Ziegelei 1
 72336 Balingen
 Germany

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

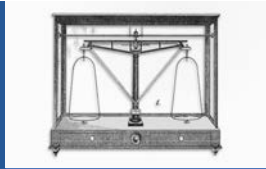
info@kern-sohn.com
 www.kern-sohn.com

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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



1863

A proud Gottlieb Kern with his staff



1880

Pharmaceutical balance with Aesculap



1923

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



2020

Construction of Ziegelei 3.0, extension of administration building