KERN®

DISPLAY DEVICES/ PLATFORMS/ WEIGHING BRIDGES

2017

PROFESSIONAL
MEASURING

KERN Pictograms

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

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

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

Alibi memory:
Electronic archiving of weighing results, complying with the 2009/23/EC standard. For details see page 199

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. High tolerance against electromagnetic disturbance.

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

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

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

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

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

Network interface:
For connecting the scale to an Ethernet network. With KERN products you can use a universal RS-232/LAN converter. See page 166

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

GLP/ISO log:
The balance displays the weight, date and time, regardless of a printer connection.

GLP/ISO log:
With weight, date and time. Only with KERN printers, see "Accessories", see page 163.

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

Recipe level A:
Separate memory for the weight of the tare container and the recipe ingredients (net total).

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

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.

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:
Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning

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. For details see page 56.

ATEX explosion protection:
Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device.

Stainless steel:
The balance is protected against corrosion.

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

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

Rechargeable battery pack:
Rechargeable set.

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

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

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

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

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

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

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

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

DAkkS calibration possible (DKD):
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.

Warranty:
The warranty period is shown in the pictogram.

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 – ordered today, on its way tomorrow
- Sales & service hotline available from 8:00 am to 6:00 pm

reliable

- 3 years warranty for balances over € 400,–
- Precision in weighing technology for more than 170 years

competent

- DAkkS accreditation DIN EN ISO/IEC 17025
- Certified QM system DIN EN ISO 9001:2008
- Authorisation for initial verification by the manufacturer 2014/31/EU
- Medical certifications DIN EN ISO 13485 and 93/42/EEC

versatile

- One-stop shopping: from pocket balances through to floor scales – everything from one supplier
- Find the product you want at lightning speed with the "Balance Quick-Finder" at www.kern-sohn.com

Order hotline
+49 [0] 7433 9933-0

Service hotline
+49 [0] 7433 9933-199

Calibration hotline
+49 [0] 7433 9933-196

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

Online Shop
www.kern-sohn.com

E-mail order
info@kern-sohn.com

Fax order
+49 [0] 7433 9933-146

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 192

Stephan Ade
Product specialist
Display devices/Platforms/
Weighing bridges

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ade@kern-sohn.com

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 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.

Platforms

Drive-through scales

Display devices

Pallet scales

Floor scales

The individual KERN steps:

	Weighing range	Model	Price excl. of VAT, ex works
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.	0 up ... kg	**KERN**	**€**
	all weighing ranges	**965-240**	**45,-**
2. Assembly After testing for suitability, using the proof of compatibility, the weighing system will be wired by KERN. The weighing system will then be adjusted, tested and prepared for verification in accordance with verification regulations.	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 KERN is authorised to carry out the initial verification by the manufacturer of scales of verification class III (commercial scales) and is therefore authorised to introduce the weighing system onto the market, after the scale has been sealed with the verification mark.	up ≤ 5 kg	**965-227**	**55,-**
	up ≤ 50 kg	**965-228**	**55,-**
	up ≤ 350 kg	**965-229**	**93,-**
	up ≤ 1500 kg	**965-230**	**132,-**
	up ≤ 2900 kg	**965-231**	**220,-**
	up ≤ 6000 kg	**965-232**	**320,-**
4. Declaration of conformity KERN issues this after manufacturer's initial verification has been carried out successfully and sends it with the verified weighing system at no additional costs.			

Modifications and special services

Description	Model KERN	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	**965-406**	**60,-**
Other adjustments in the balance or software changes	**965-407**	**95,-/h** Please require
Plug connection (replaces the fixed cable connection between the display device and platform with a plug connection which can be disconnected)		
balances with type approval and verification		not currently possible
balances with type approval, no verification	**965-406**	**60,-**

Order example

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

	Model KERN	Price excl. of VAT, ex works €
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**	**55,-**
Complete scale (verified)		**785,-**

Display devices KERN KFB-TM · KIB-TM · KFS-TM

NEW

① KERN KFB-TM

Display device with large digits – easy to read

② KERN KIB-TM

Practical Flip/Flop display device for greatest ease of use

③ KERN KFS-TM

Professional indicator with 3 displays, and with EC type approval

Note to see what options are offered by this display device, please see the KERN IFB platform scale on page 98

Note to see what options are offered by this display device, please see the KERN OEC platform scale on page 96/97

Note to see what options are offered by this display device, please see the KERN IFS platform scale on page 75

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① STANDARD: CAL EXT · RS 232 · PRINTER · PCS · SUM · TOL · MOVE
STANDARD: MULTI · 1 DAY · 2 YEARS WARRANTY
OPTION: ACCU
FACTORY: M

② STANDARD: CAL EXT · RS 232 · PRINTER · PCS · SUM · PERCENT · UNIT
STANDARD: TOL · MOVE · MULTI · 1 DAY · 2 YEARS WARRANTY
OPTION: ACCU

③ STANDARD: CAL EXT · MEMORY · RS 232 · GLP INTERN · PCS · SUM · PERCENT
STANDARD: UNIT · TOL · MULTI · 1 DAY · 2 YEARS WARRANTY
OPTION: ACCU
FACTORY: M
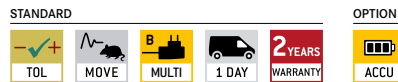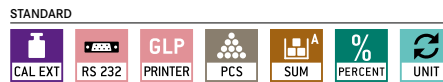
Features	Model KERN ① KFB-TM	Model KERN ② KIB-TM	Model KERN ③ KERN KFS-TM
Display (segments)	5 + ½ digits	7 digits	6 digits
EC type approval	yes	–	yes
Resolution verifiable	6000 e	3000 e	3000 e
Resolution non verifiable	30000 d	30000 d	60000 d
Weighing ranges	≤ 2	≤ 2	≤ 2
Weighing units	kg, lb	g, oz, kg, lb	kg, g
Read-out	1, 2, 5, 10, n	1, 2, 5, 10, n	1, 2, 5, 10, n
Piece counting with reference	10, 20, 50, 100, 200	10, 20, 50, 100	n
Display, digit height	Backlit LCD display, 52 mm	Backlit LCD display, 24 mm	Backlit LCD display, 13/16,5 mm
Additional functions	Totalising, HOLD function	Totalising, HOLD function, animal weighing	99 item memories, totalising, printing of date and time
Strain gauge load cells	87 – 1600 Ω	87–1100 Ω	87 – 1600 Ω
Linearisation	3 points	3 points	4 points
Input voltage	12 V, 500 mA	9 V, 100 mA	12 V, 500 mA
Permissible ambient temperature	-10 °C/40 °C	-10 °C/40 °C	0 °C/40 °C
Interface RS-232	yes	yes	yes
Interface RS-485	–	–	–
Interface Bluetooth	–	–	–
Foot switch	–	–	–
Stand	BFS-A07, see page 114, € 120,-	EOC-A05, € 60,-	BFS-A07, see page 114, € 120,-
Benchtop stand for display device/wall mount	yes/yes	EOC-A01, € 25,-	yes/yes
Protective working cover	KFB-A02S05, see page 97, € 35,-	EOC-A04, € 30,-	KFB-A02S05, see page 75, € 35,-
Rechargeable battery pack	KFB-A01, see page 97, € 35,-	KFS-A01, see page 75, € 35,-	KFS-A01, see page 75, € 35,-
Operating/charging time	up to 35 h/12 h	up to 36 h/3 h	up to 40 h/12 h
Dimensions Housing W×D×H	250×160×58 mm	268×115×80 mm	260×150×65 mm
Net weight	1,5 kg	0,8 kg	1,5 kg
Price excl. of VAT, ex works €	**200,-**	**160,-**	**210,-**

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Display devices KERN KXG-TM · KFT-TM

NEW

4 KERN KXG-TM

IP68 display device with integrated power supply

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

5 KERN KFT-TM

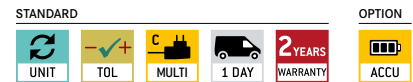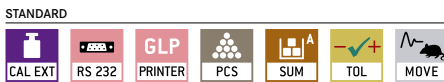KERN Easy-Touch display device – the intuitive way to weigh

Note to see what options are offered by this display device, please see the KERN IFT platform scale on page 107/108

STANDARD

| CAL EXT | PRINTER (GLP) | PCS | SUM (A) | UNIT | TOL | MOVE |

STANDARD

| IP 68 | 230 V | 1 DAY | 2 YEARS WARRANTY |

OPTION

| RS 232 | RS 485 | BT 2.0 | WLAN | ACCU |

FACTORY

| M |

STANDARD

| CAL EXT | MEMORY | RS 232 | USB | GLP INTERN | PCS | RECIPE (C) |

STANDARD

| PERCENT | UNIT | TOL | MOVE | MULTI (B) | 1 DAY | 2 YEARS WARRANTY |

OPTION

| ACCU |
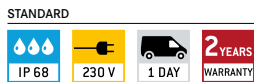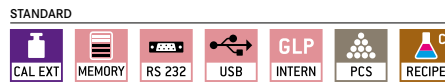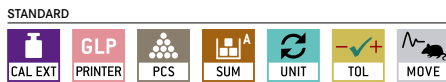
Features	Model KERN	Model KERN
	4 KXG-TM	5 KFT-TM
Display (segments)	6 digits	6 digits
EC type approval	yes	–
Resolution verifiable	10000 e	–
Resolution non verifiable	30000 d	30.000 d
Weighing ranges	≤ 2	≤ 2
Weighing units	kg, g	kg, g
Read-out	1, 2, 5, 10, 20, 50	1, 2, 5
Piece counting with reference	10, 20, 50, 100, 200	10, 20, 50, 100, 200
Display, digit height	Backlit LCD display, 55 mm	Graphics backlit LCD touch display, 12 mm
Additional functions	PRE-TARE function, totalising, HOLD function, peak hold, zero-point memorisation	8 GB internal memory, 64 MB RAM, Dual-Core processor, alibi memory, password protection, user profiles, up to 4 platforms can be connected
Strain gauge load cells	87 – 1600 Ω	80 - 1200 Ω
Linearisation	2-7 points	2 points
Input voltage	110-230 V AC	12 V DC, 2500mA
Permissible ambient temperature	-10 °C/40 °C	-10 °C/40 °C
Interface RS-232	KXS-A04, € 40,-	yes
Interface RS-485	KXS-A01, € 85,-	–
Interface Bluetooth	KXS-A02, € 110,- (Scale ▶ PC)	–
Foot switch	KXS-A03, € 70,-	–
Stand	YKP-01, € 370,-	–
Benchtop stand for display device/wall mount	yes/yes	yes/yes
Protective working cover	–	yes/yes
Rechargeable battery pack	GAB-A04, € 40,-	KFB-A01, € 35,-
Operating/charging time	up to 80 h/12 h	up to 7 h/12 h
Dimensions Housing W×D×H	232×170×80 mm	252×152×134 mm
Net weight	2 kg	1 kg
Price excl. of VAT, ex works €	**210,-**	**650,-**

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Display devices KERN KFE-TM · KFN-TM · KXS-TM

⑥ KERN KFE-TM

Stainless steel display device with IP65 protection

Note to see what options are offered by this display device, please see the KERN SFE platform scale on page 100

STANDARD: CAL EXT | SUM | TOL | MOVE | IP 65 | INOX | ACCU

STANDARD: MULTI | 1 DAY | 2 YEARS WARRANTY

FACTORY: M

⑦ KERN KFN-TM

Stainless steel display device with IP65 protection and superior display size

Note to see what options are offered by this display device, please see the KERN SFB platform scale on page 63

STANDARD: CAL EXT | PCS | SUM | TOL | MOVE | IP 65 | INOX

STANDARD: MULTI | 1 DAY | 2 YEARS WARRANTY

OPTION: RS 232 | ACCU

FACTORY: M

⑧ KERN KXS-TM

Stainless steel display device with IP68 protection and integrated power supply

Note to see what options are offered by this display device, please see the KERN SXS platform scale on page 64

STANDARD: CAL EXT | PCS | SUM | PERCENT | TOL | MOVE | IP 68

STANDARD: INOX | 230 V | 1 DAY | 2 YEARS WARRANTY

OPTION: RS 232 | RS 485 | BT 2.0 | ACCU

FACTORY: M

Features	Model KERN ⑥ KERN KFE-TM	Model KERN ⑦ KERN KFN-TM	Model KERN ⑧ KERN KXS-TM
Display (segments)	6 digits	5 + 1/2 digits	6 digits
EC type approval	yes	yes	yes
Resolution verifiable	6000 e	6000 e	10000 e
Resolution non verifiable	30000 d	30000 d	30000 d
Weighing ranges	≤ 2	≤ 2	≤ 2
Weighing units	kg	kg	kg, g
Read-out	1, 2, 5, 10, n	1, 2, 5, 10, n	1, 2, 5, 10, 50
Piece counting with reference	–	10, 20, 50, 100, 200	10, 20, 50, 100, 200
Display, digit height	Backlit LCD display, 22 mm	Backlit LCD display, 52 mm	Backlit LCD display, 55 mm
Additional functions	–	Totalising, HOLD function	PRE-TARE function, totalising, HOLD function, peak hold, zero-point memorisation
Strain gauge load cells	87 – 1200 Ω	87 – 1600 Ω	87 – 1600 Ω
Linearisation	2 points	2 points	2–7 points
Input voltage	12 V, 500 mA	12 V, 500 mA	220–240 V AC
Permissible ambient temperature	-10 °C/40 °C	-10 °C/40 °C	-10 °C/40 °C
Interface RS-232	–	KFN-A01, see page 63, € 95,-	KXS-A04, € 40,-
Interface RS-485	–	–	KXS-A01, € 85,-
Interface Bluetooth	–	–	KXS-A02, € 110,- (Scale ▶ PC)
Foot switch	–	–	KXS-A03, € 70,-
Stand	–	BFS-A07, see page 118, € 120,-	YKP-01, € 370,-
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	up to 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	2,5 kg	2,5 kg
Price excl. of VAT, ex works €	**250,-**	**290,-**	**300,-**

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NEW

① KERN KFP V20 IP65

Platform

STANDARD
IP 65 | 1 DAY | 1 DAY | 2 YEARS WARRANTY

FACTORY
M

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

KERN YKU-01

AD converter for recording weighing data in industrial environments

STANDARD
RS 232 | USB | 1 DAY

FACTORY
BT 2.0 | WLAN | LAN

Features

- Makes your weighing processes ready for the requirements of Industrie 4.0
- For rapid transfer of weighing data to connected networks, computers, etc.
- RS-232 and USB data interface, standard
- Transfer formats are freely configurable
- Many interface variants available: Bluetooth 2.0, YKI-09, **€ 95,-** WLAN, KERN YKU-A01, **€ 120,-** Ethernet, YKU-A03, **€ 100,-** **Please note:** simultaneous use of Bluetooth und USB interface or Ethernet and WLAN interface is not possible. Before making your purchase, if necessary, please contact your KERN customer adviser who will be happy to help you.

- Optional: Balance Connection Software – flexible recording or transfer of measurements, particularly to Microsoft® Excel or Access, for further details see page 165, KERN SCD-4.0, **€ 150,-**
- Functions: Weighing, tare function, checking, switching, dispensing
- Internal Resolution 16 million divisions
- Measurement rate 80 per second
- Easy configuration using the software supplied
- Robust aluminium cast housing, IP 65
- Suitable for wall mounting and DIN track mount
- Dimensions housing W×D×H 205×50×110 mm
- Net weight approx. 1 kg
- KERN YKU-01, **€ 420,-**

Model KERN	Weighing range [Max] kg	Readout [d] g	Verific. 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 6V20M	6	2	1 | 2	40	2	3,8	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	5 | 10	10	200	2,5	7	300×240×110	**195,-**
KFP 30V20M	30	1	5 | 10	200	2	10	400×300×128	**230,-**
KFP 60V20M	60	0,2	10 | 20	400	2	10	400×300×128	**230,-**
KFP 60V20LM	60	2	10 | 20	400	2	13	500×400×137	**290,-**
KFP 150V20M	150	5	20 | 50	1000	2	13	500×400×137	**290,-**
KFP 150V20LM	150	5	20 | 50	1000	2	22	500×650×135	**510,-**
KFP 300V20M	300	10	50 | 100	2000	2	22	500×650×134	**510,-**
KFP 600V20AM	600	200	200	4000	2,5	46	800×600×150	**740,-**

Similar to illustration
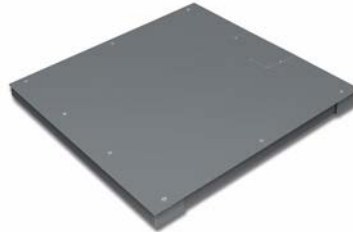
② KERN KXP V20 IP65

Platform

STANDARD — IP 65 · 1 DAY · 2 YEARS WARRANTY
FACTORY — M

- ② Stainless steel-weighing plate, Ⓑ Painted steel base, is 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

③ KERN KFP V20 IP67

Weighing bridge

STANDARD — IP 67 · 1 DAY · 2 YEARS WARRANTY
FACTORY — M

- Ⓒ **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,** models with weighing range [Max] ≥ 3000 kg 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 114 (KERN BFB)

④ KERN KFD V20

Weighing bridge

STANDARD — IP 67 · 1 DAY · 2 YEARS WARRANTY
FACTORY — M

- **Weighing bridge made of non-slip corrugated steel plate,** lacquered, two access ramps integrated, extremely resistant to bending
- Extremely flat construction to facilitate access: access height only 45 mm
- **4 Load cells, alloy steel, silicone-coated, IP67, OIML-R60-approved** class III, 3000 e
- Accessories page 126 (KERN NFB)

Model KERN	Weighing range [Max] kg	Readout [d] g	Verific. 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 €
② **Platform KXP-V20**								
KXP 6V20LM	6	0,2	1 | 2	40	3	3,2	300×240×90	**220,-**
KXP 15V20M	15	0,5	2 | 5	100	3	3,2	300×240×90	**230,-**
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 **Weighing bridge KFP-V20 IP67**								
KFP 600V20SNM	600	200	200	4000	5	105	1000×1000×80	**1010,-**
KFP 600V20NM	600	200	200	4000	5	135	1500×1250×80	**1410,-**
KFP 1500V20SNM	1500	500	500	10000	5	105	1000×1000×80	**1010,-**
KFP 1500V20NM	1500	500	500	10000	5	135	1500×1250×80	**1450,-**
KFP 3000V20NM	3000	1000	1000	20000	5	135	1500×1250×80	**1410,-**
KFP 3000V20LNM	3000	1000	1000	20000	5	155	1500×1500×80	**1600,-**
KFP 6000V20NM	6000	2000	2000	40000	5	210	1500×1500×130	**1730,-**
④ **Weighing bridge KFD-V20**								
KFD 600V20M	600	200	200	4000	5	130	1600×1200×78	**1270,-**
KFD 600V20LM	600	200	200	4000	5	155	1400×1800×80	**1450,-**
KFD 1500V20M	1500	500	500	10000	5	125	1600×1200×78	**1270,-**
KFD 1500V20LM	1500	500	500	10000	5	175	1800×1400×78	**1460,-**

Weighing beams/U-Weighing bridges/Platforms KERN KFA · KFU · KFP

5 KERN KFA V20

Weighing beams

STANDARD
IP 67 | 2 DAYS | 3 YEARS WARRANTY

- **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 122 (KERN UFA)

6 KERN KFU V20/V30

U-Weighing bridge

STANDARD
IP 67 | INOX KFU V30 | 2 DAYS | 3 YEARS WARRANTY

FACTORY
M

- 6 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 123 (KERN UFB)
- Accessories KFU V30 page 125 (KERN UFN)

7 KERN KFP V30

Platform

STANDARD
IP 67 | INOX | 2 DAYS | 3 YEARS WARRANTY

FACTORY
M

- 7 **Stainless steel-weighing plate,** E Stainless steel substruction
- **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

Note

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

Model KERN	Weighing range [Max] kg	Readout [d] g	Verific. 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 €
5 **Weighing beams KFA-V20**								
KFA 600V20S [NEW]	600	200	-	-	5	30	800×120×80	**890,-**
KFA 1500V20	1500	500	-	-	5	36	1200×120×100	**910,-**
KFA 3000V20	3000	1000	-	-	5	36	1200×120×100	**910,-**
KFA 3000V20L	3000	1000	-	-	5	65	2000×120×100	**1150,-**
KFA 6000V20	6000	2000	-	-	5	85	1200×160×80	**1220,-**
KFA 6000V20L	6000	2000	-	-	5	125	2100×160×85	**1550,-**
6 **U-Weighing bridge KFU-V20**								
KFU 600V20M	600	200	200	4000	5	53	842×1300×90	**750,-**
KFU 1500V20M	1500	500	500	10000	5	53	842×1300×90	**750,-**
6 **Stainless steel U-Weighing bridge KFU-V30**								
KFU 600V30M	600	200	200	4000	5	53	842×1300×90	**1750,-**
KFU 1500V30M	1500	500	500	10000	5	53	842×1300×90	**1750,-**
7 **Stainless steel platform KFP-V30**								
KFP 15V30M	15	0,5	5	100	2,5	4,6	300×240×100	**480,-**
KFP 30V30SM	30	10	10	200	2,5	7	300×240×100	**490,-**
KFP 30V30M	30	1	10	200	2,5	10	400×300×128	**545,-**
KFP 60V30M	60	2	20	400	2,5	10	400×300×128	**550,-**
KFP 60V30LM	60	0,2	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	15	500×400×137	**660,-**
KFP 150V30LM	150	5	50	1000	2,5	22	650×500×142	**1000,-**
KFP 300V30M	300	10	100	2000	2,5	22	650×500×142	**990,-**

[NEW] New model

12

NEW

8 KERN KFP V40

Weighing bridge

STANDARD | FACTORY
IP 68 · INOX · 2 DAYS · 3 YEARS WARRANTY | M

· 8 **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 119 (KERN BFN)

9 KERN KFD V40

Weighing bridge

STANDARD | FACTORY
IP 68 · INOX · 2 DAYS · 3 YEARS WARRANTY | M

· 9 **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 128 (KERN NFN)

10 KERN KKP-V40

Weighing bridge

STANDARD | FACTORY
IP 68 · INOX · 5 DAYS · 3 YEARS WARRANTY | M

· 10 **Weighing bridge made entirely of stainless steel,** extremely resistant to bending because of its high material thickness
· G To clean or service the floor scale, the weighing plate can be flipped up easily using two retractable handles, without damaging your back
· **4 load cells, stainless steel, encapsulated IP68, OIML-R60-approval for verification,** class III, 3000 e
· Can be built in using pit frames (optional)
· **Level indicator and levelling feet** for precise levelling of the scale
· **Comfortable levelling of the weighing bridge** from the top
· Accessories page 120/121 (KERN BKN)

Model KERN	Weighing range [Max] kg	Readout [d] g	Verific. 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 €
8 **Stainless steel weighing bridge KFP-V40**								
KFP 600V40SM	600	200	200	4000	5	95	1000×1000×80	**2610,-**
KFP 1500V40SM	1500	500	500	10000	5	95	1000×1000×80	**2690,-**
KFP 1500V40M	1500	500	500	10000	5	135	1500×1250×80	**3330,-**
KFP 3000V40M	3000	1000	1000	20000	5	135	1500×1250×80	**3350,-**
9 **Stainless steel weighing bridge KFD-V40**								
KFD 600V40M	600	200	200	4000	5	130	1600×1200×78	**2880,-**
KFD 1500V40M	1500	500	500	10000	5	130	1600×1200×78	**2880,-**
10 NEW **Stainless steel weighing bridge KKP-V40**								
KKP 600V40SM	600	200	200	4000	5	97	1000×1000×110	**3200,-**
KKP 600V40M	600	200	200	4000	5	126	1500×1250×110	**3900,-**
KKP 1500V40SM	1500	500	500	10000	5	97	1000×1000×110	**3200,-**
KKP 1500V40M	1500	500	500	10000	5	126	1500×1250×110	**3900,-**
KKP 3000V40M	3000	1000	1000	20000	5	126	1500×1250×110	**3900,-**
KKP 3000V40LM	3000	1000	1000	20000	5	156	1500×1500×110	**5400,-**

Tradition and innovation for more than 170 years

An independent family business, KERN since already 7 generations is synonymous with quality and reliability in customer service.
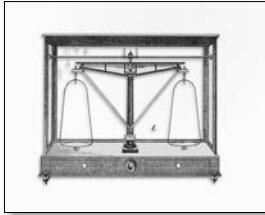
▸ 1844
KERN is founded – precision balances are produced

▸ 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/EU)

▸ 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

Quality Management
ISO 9001:2008

APPROVAL FOR MANUFACTURE **OF MEDICAL PRODUCTS** EN 13485 and 93/42/EEC

AUTHORISATION FOR **INITIAL VERIFICATION** **BY THE MANUFACTURER** 2014/31/EU

German Excellence Group
Member