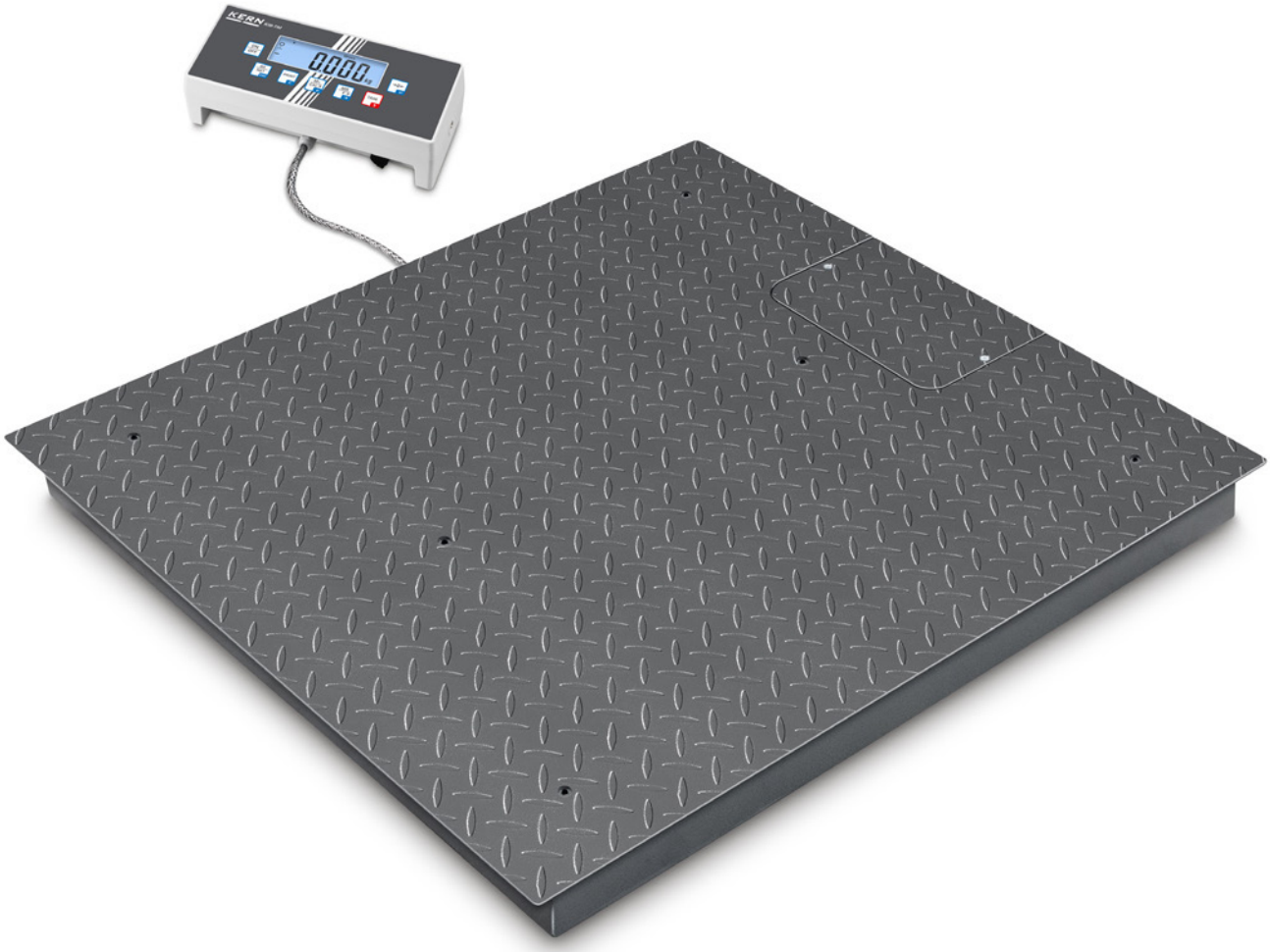
NEW



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



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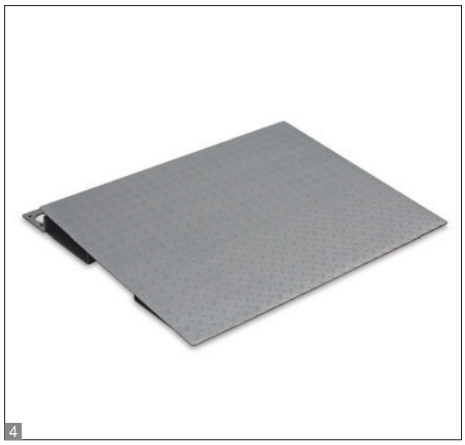
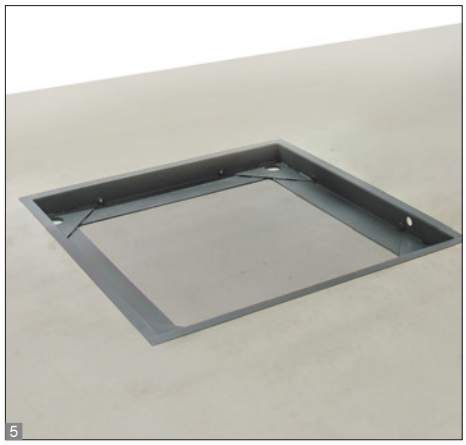
# Floor scale KERN BID


3


4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## Features

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

## Technical data

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

## Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN EOC-A01S05
- **Pair of base plates** to fix the weighing bridge to the floor, KERN BIC-A07
- 4 **Ascending ramp**, steel, powder coated, for models with weighing plate size
  A, B 1000×1000×108 mm, KERN BIC-A01
  C 1200×1000×108 mm, KERN BIC-A02
- D 1500×1000×108 mm, KERN BIC-A03
- 5 **Stable pit frame**, steel, powder coated, to install the weighing bridge so you can drive straight on, for models with weighing plate size
  A 1088×1088×110 mm, KERN BIC-A04
  B 1338×1088×110 mm, KERN BIC-A08
  C 1288×1588×110 mm, KERN BIC-A05
  D 1588×1588×110 mm, KERN BIC-A06
- **Benchtop stand incl. wall mount** for display device, KERN EOC-A04
- **Rechargeable battery pack internal**, operating time up to 43 h without backlight, charging time approx. 3 h, KERN KFB-A01
- **USB data interface**, for transferring weighing to the PC, printer, USB sticks etc., KERN KIB-A03
- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase, KERN KIB-A04
- **WLAN interface** for wireless connection of the balance to networks and WLAN capable devices, such as tablets, laptops or smartphones, must be ordered at purchase, please ask for delivery time, KERN KIB-A10
- **Digital I/O interface (8 in/8 out)**, KIB-A09
- **Ethernet data interface**, to connect an IP-based Ethernet network, must be ordered at purchase, KERN KIB-A02
- **Signal lamp, including interface,** for visual support of weighing with tolerance range, KERN KIB-A06

**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: CAL EXT, RS 232, KCP PROTOCOL, GLP PRINTER, PCS, SUM, PERCENT, TOL, MOVE, IP 65 (2), IP 67 (1), MULTI, DMS, 2 DAYS

OPTION: DAkkS +3 DAYS

FACTORY: ALIBI, USB, BT 4.0, WLAN, SWITCH, LAN, M +3 DAYS *

| Model KERN | Weighing range [Max] kg | Readout = Verif. value [d] = [e] kg | Minimal load [Min] kg | Net weight approx. kg | Weighing plate | | Options: Verification* KERN | | Options: DAkkS Calibr. Certificate KERN | |
|---|---|---|---|---|---|---|---|---|---|---|
| BID 600K-1SM | 600 | 0,2 | 4 | 130 | A | | 965-230 | | 963-130 | |
| BID 600K-1M | 600 | 0,2 | 4 | 150 | C | | 965-230 | | 963-130 | |
| BID 1T-4SM | 1500 | 0,5 | 10 | 130 | A | | 965-230 | | 963-130 | |
| BID 1T-4M | 1500 | 0,5 | 10 | 150 | C | | 965-230 | | 963-130 | |
| BID 1T-4EM | 1500 | 0,5 | 10 | 140 | B | | 965-230 | | 963-130 | |
| BID 3T-3M | 3000 | 1 | 20 | 150 | C | | 965-232 | | 963-132 | |
| BID 3T-3LM | 3000 | 1 | 20 | 150 | D | | 965-232 | | 963-132 | |

* on request



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# 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:** Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.

**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:** 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

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

**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:** The balance displays serial number, user ID, weight, date and time, regardless of a printer connection

**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

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

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

**Hold function:** (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.

**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

## KERN – Precision is our business

To ensure the high precision of your balance KERN offers you the the appropriate test weight in the international OIML error limit classes E1-M3 from 1 mg - 2500 kg. In combination with a DAkkS calibration certificate the best pre-requisite for proper balance calibration.

The KERN DAkkS calibration laboratory today is one of the most modern and best-equipped DAkkS calibration laboratories for balances, test weights and force-measurement in Europe.
Thanks to the high level of automation, we can carry out DAkkS calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

**Range of services:**
- DAkkS calibration of balances with a maximum load of up to 50 t
- DAkkS calibration of weights in the range of 1 mg – 2500 kg
- Volume determination and measuring of magnetic susceptibility (magnetic characteristics) for test weights
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DAkkS calibration certificates in the following languages DE, GB, FR, IT, ES, NL, PL
- Conformity evaluation and reverification of balances and test weights

## Your KERN specialist dealer:

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