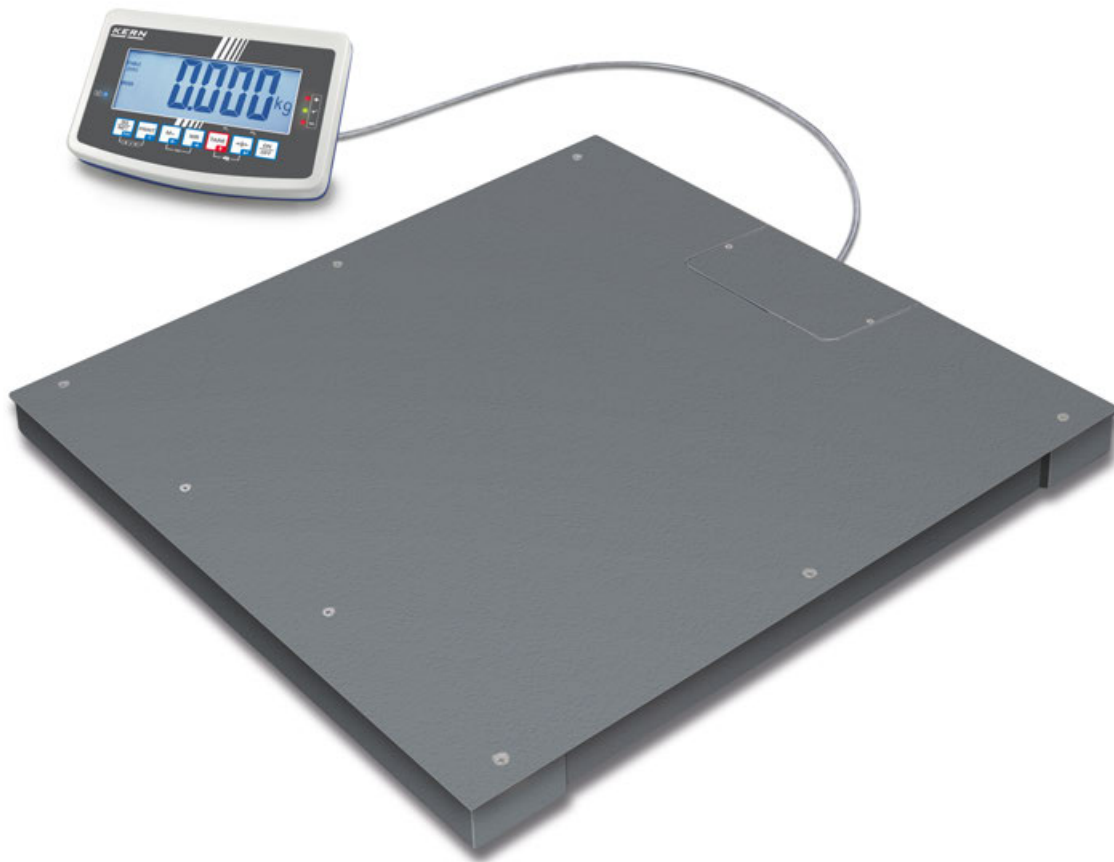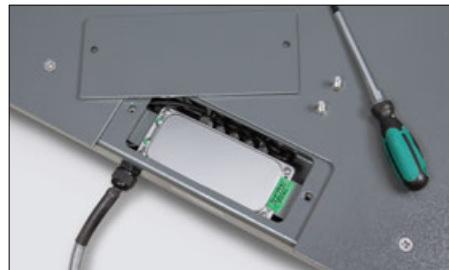**KERN**

Floor scale KERN BFB

EasyTouch

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



**Weighing plate can be unscrewed**
The weighing plate can be conveniently unscrewed for maintenance or cleaning purposes (weighing plate size A, B)
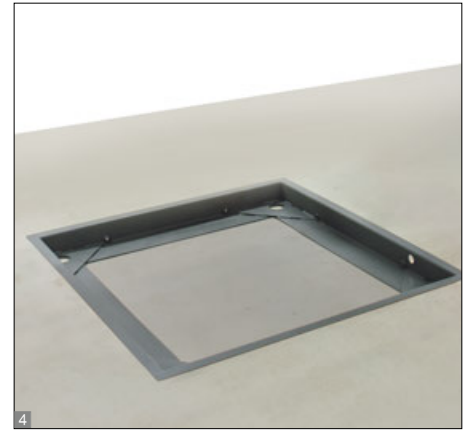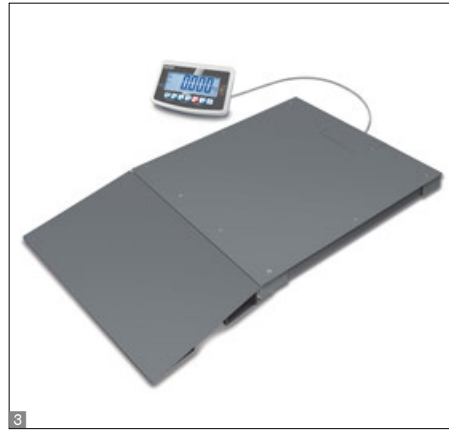


Easy levelling of the weighing bridge as well as access to the junction box from above



**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

## Floor scale KERN BFB







### Features

- Weighing plate Ⓐ, Ⓑ screwed on from the top, so it easy to remove, hygienic and easy to clean
- ① Weighing bridge: steel, powder coated, weighing plate size Ⓒ, Ⓓ corrugated steel plate, welded, 4 silicone-coated steel load cells, dust and spray protection IP67
- Display device: for details see KERN KFB-TM
- Benchtop stand incl. wall mount for display device as standard
- Totalising of weights and piece counts
- Protective working cover included with delivery

### Technical data

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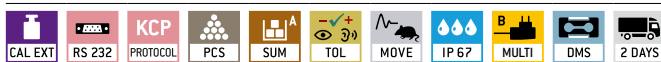- Permissible ambient temperature -10 °C/40 °C

### Accessories

- Protective working cover, scope of delivery: 5 items, KERN KFB-A02S05
- ② Stand to elevate display device Column height approx. 800 mm, KERN BFS-A07
- Pair of base plates to fix the weighing bridge to the floor, for models with weighing plate size Ⓐ, Ⓑ, Ⓒ KERN BFS-A06N
  - Ⓓ KERN BFS-A10
- ③ Ascending ramp, Steel, lacquered, not included, for models with weighing plate size
  - Ⓐ KERN BFS-A01N
  - Ⓑ KERN BFS-A02N
  - Ⓒ KERN BFS-A09N
  - Ⓓ KERN BFS-A11
- ④ Stable pit frame, steel, for models with weighing plate size
  - Ⓐ KERN BFS-A03N
  - Ⓑ KERN BFS-A04N
  - Ⓒ KERN BFS-A08
- Internal rechargeable battery pack, operating time up to 35 h without backlight, charging time approx. 10 h, must be ordered at purchase, KERN KFB-A01
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification. When installing the Bluetooth data interface, the RS-232 data interface can no longer be used, not possible in combination with RS 232 data interface, KERN KFB-A03

- Analogue module, must be ordered at purchase, not possible in combination with signal lamp
  0–10 V: KERN KFB-A04
  4–20 mA: KERN KFB-A05
- Signal lamp for visual support of weighing with tolerance range, not possible in combination with analogue module, KERN CFS-A03
- Large display with superior display size, KERN YKD-A02
- Cable with special length 15 m, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03
- Further details, plenty of further accessories and suitable printers see *Accessories*

**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 | PCS | SUM A | TOL | MOVE | IP 67 | B MULTI | DMS | 2 DAYS |

**OPTION**

| ET | DAkkS +3 DAYS |

**FACTORY**

| BT 2.0 | D/A ANALOG | ACCU | M +3 DAYS |

① 

| Model<br>KERN | Weighing capacity [Max] kg | Readability = Verification value [d] = [e] kg | Minimal load [Min] kg | Net weight approx. kg | Weighing plate | | Option | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | **Verification**<br>Ⓜ〔Ⅲ〕<br>KERN | **DAkkS Calibr. Certificate**<br>DAkkS<br>KERN |
| BFB 600K-1SNM | 600 | 0,2 | 4 | 105 | Ⓐ | | 965-230 | 963-130 |
| BFB 600K-1NM | 600 | 0,2 | 4 | 140 | Ⓑ | | 965-230 | 963-130 |
| BFB 1T-4SNM | 1500 | 0,5 | 10 | 105 | Ⓐ | | 965-230 | 963-130 |
| BFB 1T-4NM | 1500 | 0,5 | 10 | 140 | Ⓑ | | 965-230 | 963-130 |
| BFB 3T-3NM | 3000 | 1 | 20 | 140 | Ⓑ | | 965-232 | 963-132 |
| BFB 3T1LM | 3000 | 1 | 20 | 155 | Ⓒ | | 965-232 | 963-132 |
| BFB 6T-3M | 6000 | 2 | 40 | 230 | Ⓓ | | 965-232 | 963-132 |

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

## Pictograms

**CAL INT** — **Internal adjusting:**
Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)

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

**ET** — **Easy Touch:**
Suitable for the connection, data transmission and control through PC or tablet.

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

**ALIBI** — **Alibi memory:**
Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.

**RS 232** — **Data interface RS-232:**
To connect the balance to a printer, PC or network

**RS 485** — **RS-485 data interface:**
To connect the balance to a printer, PC or other peripherals. Suitable for datatransfer over large distances. Network in bus topology is possible

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

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

**WIFI** — **WiFi data interface:**
To transfer data from the balance to a printer, PC or other peripherals

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

**ANALOG** — **Analogue interface:**
to connect a suitable peripheral device for analogue processing of the measurements

**DUAL** — **Interface for second balance:**
For direct connection of a second balance

**LAN** — **Network interface:**
For connecting the scale to an Ethernet network

**KCP PROTOCOL** — **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 INTERN** — **GLP/ISO log:**
The balance displays serial number, user ID, weight, date and time, regardless of a printer connection

**GLP PRINTER** — **GLP/ISO log:**
With weight, date and time. Only with KERN printers.

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

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

**SUM A** — **Totalising level A:**
The weights of similar items can be added together and the total can be printed out

**PERCENT** — **Percentage determination:**
Determining the deviation in % from the target value (100 %)

**UNIT** — **Weighing units:**
Can be switched to e.g. nonmetric units. See balance model. Please refer to KERN's website for more details

**TOL** — **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

**MOVE** — **Hold function:**
(Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value

**IP** — **Protection against dust and water splashes IPxx:**
The type of protection is shown in the pictogram.

**UNDER** — **Suspended weighing:**
Load support with hook on the underside of the balance

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

**ACCU** — **Rechargeable battery pack:**
Rechargeable set

**A MULTI** — **Universal plug-in power supply:**
with universal input and optional input socket adapters for A) EU, CH, GB; B) EU, CH, GB, USA; C) EU, CH, GB, USA, AUS

**230 V** — **Plug-in power supply:**
230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available

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

**DMS** — **Weighing principle: Strain gauges:**
Electrical resistor on an elastic deforming body

**T-FORK** — **Weighing principle: Tuning fork:**
A resonating body is electromagnetically excited, causing it to oscillate

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

**SC TECH** — **Weighing principle: Single cell technology:**
Advanced version of the force compensation principle with the highest level of precision

**M +3 DAYS** — **Verification possible:**
The time required for verification is specified in the pictogram

**DAkkS +3 DAYS** — **DAkkS calibration possible (DKD):**
The time required for DAkkS calibration is shown in days in the pictogram

**ISO +4 DAYS** — **Factory calibration (ISO):**
The time required for Factory calibration is shown in days in the pictogram

**1 DAY** — **Package shipment:**
The time required for internal shipping preparations is shown in days in the pictogram

**2 DAYS** — **Pallet shipment:**
The time required for internal shipping preparations is shown in days in the pictogram

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## 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-measure-ment 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, EN, FR, IT, ES, NL, PL
- Conformity evaluation and reverification of balances and test weights

## Your KERN specialist dealer: