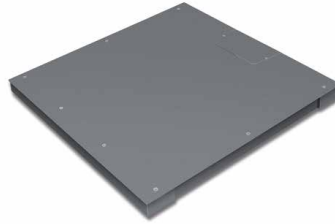
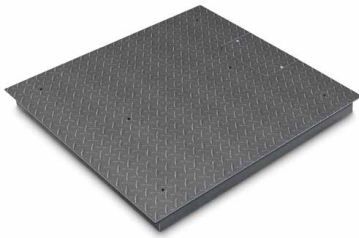


Platforms KERN KIP · KFP · KFD



## 4 KERN KIP-V20M

### Weighing Bridge

#### Features

- 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 see KERN BID, page 122/123

## 5 KERN KFP-V20 IP67

### Weighing Bridge

#### Features

- 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 see KERN BFB, page 124/125

## 6 KERN KFD-V20

### Weighing Bridge

#### Features

- 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 see KERN NFB page 133



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
<b>KERN</b>							
<b>4 Weighing bridge KIP-V20M</b>							
KIP 1500V20SM	1500	500	500	10000	5	130	1000×1000×108
KIP 1500V20EM	1500	500	500	10000	5	140	1200×1000×108
KIP 1500V20M	1500	500	500	10000	5	150	1500×1200×108
KIP 3000V20M	3000	1000	1000	20000	5	150	1500×1200×108
KIP 3000V20LM	3000	1000	1000	20000	5	180	1500×1500×108
<b>5 Weighing bridge KFP-V20 IP67</b>							
KFP 1500V20NM	1500	500	500	10000	5	135	1500×1250×90
KFP 3000V20NM	3000	1000	1000	20000	5	135	1500×1250×90
KFP 3000V20LNM	3000	1000	1000	20000	5	155	1500×1500×80
<b>6 Weighing bridge KFD-V20</b>							
KFD 600V20M*	600	200	200	4000	5	125	1600×1200×78
KFD 600V20LM*	600	200	200	4000	5	155	1800×1400×80
KFD 1500V20M*	1500	500	500	10000	5	125	1600×1200×78
KFD 1500V20LM*	1500	500	500	10000	5	175	1800×1400×78

\* ONLY WHILE STOCKS LAST!

**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**  
**EasyTouch**  
 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.

**KUP**  
**KERN Universal Port (KUP)**  
 allows the connection of external KUP interface adapters, e.g. RS-232, RS-485, SB, Bluetooth, WIFI, Analogue, Ethernet etc. for the exchange of data and control commands, without installation effort

**RS 232**  
**RS-232 Data interface**  
 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 data transfer 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 intern**  
 The balance displays weight, date and time, independent of a printer connection

**GLP PRINTER**  
**GLP/ISO log Printer**  
 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

**MULTI**  
**Universal plug-in power supply**  
 with universal input and optional input socket adapters for  
 A) EU, CH, GB  
 B) EU, CH, GB, US  
 C) EU, CH, GB, US, 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**  
**Conformity Assessment**  
 The time required for conformity assessment 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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