

Stainless steel weighing bridges KERN KFP · KFD



9 KERN KFP-V40

Weighing bridge

STANDARD FACTORY

IP 68 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 see KERN BFN, page 109

10 KERN KFD-V40

Weighing bridge

STANDARD FACTORY

IP 68 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 see KERN NFN, page 117



| Model   | Weighing range [Max]<br>kg | Readability [d]<br>g | Verification value [e]<br>g | Min. load [Min]<br>g | Cable length approx.<br>m | Net weight approx.<br>kg | Weighing plate W×D×H<br>mm |
|---|----------------------------|----------------------|-----------------------------|----------------------|---------------------------|--------------------------|----------------------------|
| <b>9 Stainless steel weighing bridge KFP-V40</b>  |                            |                      |                             |                      |                           |                          |                            |
| KFP 600V40SM                                      | 600                        | 200                  | 200                         | 4000                 | 5                         | 95                       | 1000×1000×80               |
| KFP 1500V40M                                      | 1500                       | 500                  | 500                         | 10000                | 5                         | 135                      | 1500×1250×80               |
| KFP 1500V40SM                                     | 1500                       | 500                  | 500                         | 10000                | 5                         | 95                       | 1000×1000×80               |
| KFP 3000V40M                                      | 3000                       | 1000                 | 1000                        | 20000                | 5                         | 135                      | 1500×1250×80               |
| <b>10 Stainless steel weighing bridge KFD-V40</b> |                            |                      |                             |                      |                           |                          |                            |
| KFD 600V40M                                       | 600                        | 200                  | 200                         | 4000                 | 5                         | 130                      | 1600×1200×78               |
| KFD 1500V40M                                      | 1500                       | 500                  | 500                         | 10000                | 5                         | 130                      | 1600×1200×78               |

## Pictograms

|  |  |  |
|--|--|--|
| <b>Internal adjusting:</b><br>Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)  | <b>KERN Communication Protocol (KCP):</b><br>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 | <b>Suspended weighing:</b><br>Load support with hook on the underside of the balance   |
| <b>Adjusting program CAL:</b><br>For quick setting up of the balance's accuracy. External adjusting weight required  | <b>GLP/ISO log:</b><br>The balance displays serial number, user ID, weight, date and time, regardless of a printer connection  | <b>Battery operation:</b><br>Ready for battery operation. The battery type is specified for each device  |
| <b>Easy Touch:</b><br>Suitable for the connection, data transmission and control through PC or tablet.   | <b>GLP/ISO log:</b><br>With weight, date and time. Only with KERN printers.  | <b>Rechargeable battery pack:</b><br>Rechargeable set  |
| <b>Memory:</b><br>Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.  | <b>Piece counting:</b><br>Reference quantities selectable. Display can be switched from piece to weight  | <b>Universal plug-in power supply:</b><br>with universal input and optional input socket adapters for A) EU, CH, GB; B) EU, CH, GB, USA; C) EU, CH, GB, USA, AUS |
| <b>Alibi memory:</b><br>Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.  | <b>Recipe level A:</b><br>The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out  | <b>Plug-in power supply:</b><br>230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available  |
| <b>Data interface RS-232:</b><br>To connect the balance to a printer, PC or network  | <b>Recipe level B:</b><br>Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display   | <b>Integrated power supply unit:</b><br>Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request                              |
| <b>RS-485 data interface:</b><br>To connect the balance to a printer, PC or other peripherals. Suitable for datatransfer over large distances. Network in bus topology is possible | <b>Totalising level A:</b><br>The weights of similar items can be added together and the total can be printed out  | <b>Weighing principle: Strain gauges:</b><br>Electrical resistor on an elastic deforming body  |
| <b>USB data interface:</b><br>To connect the balance to a printer, PC or other peripherals   | <b>Percentage determination:</b><br>Determining the deviation in % from the target value (100 %)   | <b>Weighing principle: Tuning fork:</b><br>A resonating body is electromagnetically excited, causing it to oscillate   |
| <b>Bluetooth* data interface:</b><br>To transfer data from the balance to a printer, PC or other peripherals   | <b>Weighing units:</b><br>Can be switched to e.g. nonmetric units. See balance model. Please refer to KERN's website for more details  | <b>Weighing principle: Electromagnetic force compensation:</b><br>Coil inside a permanent magnet. For the most accurate weighings                                |
| <b>WiFi data interface:</b><br>To transfer data from the balance to a printer, PC or other peripherals   | <b>Weighing with tolerance range:</b><br>(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   | <b>Weighing principle: Single cell technology:</b><br>Advanced version of the force compensation principle with the highest level of precision                   |
| <b>Control outputs (optocoupler, digital I/O):</b><br>To connect relays, signal lamps, valves, etc.  | <b>Hold function:</b><br>(Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value  | <b>Verification possible:</b><br>The time required for verification is specified in the pictogram  |
| <b>Analogue interface:</b><br>to connect a suitable peripheral device for analogue processing of the measurements  | <b>Protection against dust and water splashes IPxx:</b><br>The type of protection is shown in the pictogram.   | <b>DAKkS calibration possible (DKD):</b><br>The time required for DAKkS calibration is shown in days in the pictogram  |
| <b>Interface for second balance:</b><br>For direct connection of a second balance  |  | <b>Factory calibration (ISO):</b><br>The time required for Factory calibration is shown in days in the pictogram   |
| <b>Network interface:</b><br>For connecting the scale to an Ethernet network   |  | <b>Package shipment:</b><br>The time required for internal shipping preparations is shown in days in the pictogram   |
|  |  | <b>Pallet shipment:</b><br>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-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, EN, FR, IT, ES, NL, PL
- Conformity evaluation and reverification of balances and test weights

## Your KERN specialist dealer: