BALANCES & TEST SERVICE 2023

DISPLAY DEVICES/PLATFORMS/WEIGHING BRIDGES



Stainles steel weighing bridges KERN KFP · KFD



KERN KFP-V40

Weighing bridge



- Weighing bridge entirely made of stainless steel, extremely resistant to bending because of its high material thickness
- 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



III KERN KFD-V40

Weighing bridge



- 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



Model	Weighing range [Max]	Readability [d]	Verification value [e]	Min. Ioad [Min]	Cable length approx.	Net weight approx.	Weighing plate W×D×H
KERN	kg	g	g	g	m	kg	mm
Stainless steel w	eighing bridge K	FP-V40					
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
10 Stainless steel w	eighing bridge K	FD-V40					
KFD 600V40M	600	200	200	4000	5	130	1600×1200×78
KFD 1500V40M	1500	500	500	10000	5	130	1600×1200×78



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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



Easy Touch:

Suitable for the connection, data transmission and control through PC or tablet.



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.



• 888. •

RS 232

• 1998. •

RS 485

KERN Universal Port (KUP):

allows the connection of external KUP PCS interface adapters, e.g. RS-232, RS-485, SB, Bluetooth, WLAN, Analogue, Ethernet etc. for the exchange of data and control commands, without installation effort

Data interface RS-232:

To connect the balance to a printer, PC or network



To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible

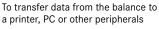
USB data interface:

To connect the balance to a printer, PC or other peripherals



USB

Bluetooth* data interface:





0^0

SWITCH

WiFi 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.



Analogue interface:

HIIEBEL TRADING

to connect a suitable peripheral device for analogue processing of the measurements



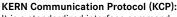
Interface for second balance: For direct connection of a second balance



KCP

Network interface: For connecting the scale to an

Ethernet network



It is a standardized interface command PROTOCOL 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





PRINTER

The balance displays weight, date and time, independent of a printer connection

GLP/ISO log: GLP

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:

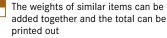
The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out



Internal memory for complete recipes RECIPE with name and target value of the recipe ingredients. User guidance through display



Totalising level A:



Determining the deviation in % from

Percentage determination:

%



Weighing units:

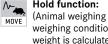
the target value (100 %)

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



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

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.

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Battery operation:

Suspended weighing:

underside of the balance

Load support with hook on the

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



UNDER

BATT

Rechargeable battery pack: Rechargeable set



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



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



Integrated power supply unit: 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 +3 DAYS specified in the pictogram



ISO

1 DAY

2 DAYS

DAkkS calibration possible (DKD):

The time required for Factory calibration

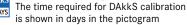
The time required for internal shipping prepa-

The time required for internal shipping prepa-

rations is shown in days in the pictogram

rations is shown in days in the pictogram

is shown in days in the pictogram



Package shipment:

Pallet shipment:

Factory calibration (ISO):