











Robust high-resolution crane scale up to 12 t

Features

- II With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/Breakage resistance) and EN 61010-1 (Electrical safety)
- · Because of its stable construction and robust design, it is ideal for continuous use in industrial environment
- · High mobility: thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)
- · Hold function: When the weighing value remains unchanged the weight indicated on the display is automatically "frozen" until the Hold key is pressed

- Tare: Resets the display to "0" when there is a load on the scale. Now removed or added loads are directly displayed
- · Solid shackles, non-revolving
- 2 Radio remote control standard. Range up to 20 m. All functions can be selected (excl. ON/OFF). W×D×H 48×10×95 mm. Batteries included, 2 × 1,5 V AAA

Technical data

- · Superior display size: digit height 30 mm, bright backlight for easy reading of weight, even under poor lighting conditions
- · Rechargeable battery pack internal, standard, operating time up to 80 h without backlight, charging time approx. 12 h
- Precision: 0,2 % von [Max]

36

· Permissible ambient temperature -10 °C/40 °C

Accessories

- · Rechargeable battery pack internal for load support, operating time up to 80 h, without backlight, charging time approx. 12 h, KERN HFD-A04
- External universal mains adapter, with universal input and optional input socket adapters for EU, GB, USA, YKA-11
- I Hook with safety catch, cast steel, galvanised and lacquered, non-revolving, suitable for models HFD 600, HFD 1T: KERN HFD-A01 HFD 3T: KERN HFD-A02 HFD 6T: KERN HFD-A03 HFD 10T, HFD 12T: KERN HFD-A05

STANDARD



HFD 6T-3









1500|3000|6000

3000 | 6000 | 12000

500 | 1000 | 2000

1000 | 2000 | 5000



Model	Weighing range	Readout	Net weight	4 Dimensions							Option DAkkS Calibr. Certificate		
I/EDN	[Max]	[d]	approx.	Α	В	С	D	Е	F	G		DKD	
KERN	kg	g	kg	mm	mm	mm	mm	mm	mm	mm		KERN	
Triple-range balance switches automatically to the next largest weighing range [Max] and readout [d]													
HFD 600K-1	150 300 600	50 100 200	11	194	129	145	421	383	50,8	50,8		963-130H	
HFD 1T-4	300 600 1500	100 200 500	11	194	129	145	421	383	50,8	50,8		963-130H	
HFD 3T-3	600 1500 3000	200 500 1000	11	194	129	145	421	383	50,8	50,8		963-132H	

963-132H

194

194

129

129

145

145

477

573

510

426 | 68,3 | 68,3

82,5

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



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



IAN

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 %)



UNIT

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: (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



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 MULTI 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



230 V

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



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-

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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