

Crane scale KERN HFD



KERN HFD-M

Robust, high-resolution crane scale up to 12 t, now also with EC type approval [M] or protection type IP67



High mobility thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department etc.)

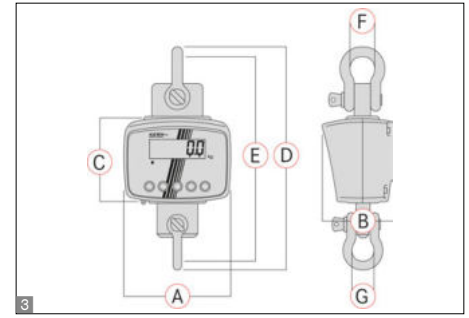


Solid shackles, non-revolving



Radio remote control standard. Range up to 20 m. All functions can be selected. W×D×H 65×24×100 mm. Batteries included, 1× 12 V 23A

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Features

- The models with M add-on have EC type approval and because of this they are ideal for use in verified applications such as, for example, calculation of a total price, based on weight
- The models with IP add-on have special spray and dust protection to IP67 and because of this they are ideal for use in harsh environments
- 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

Technical data

- Superior display size: digit height 30 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- Internal rechargeable battery pack, as standard, operating time up to 70 h without back light, charging time approx. 12 h. Battery pack accessible from the outside, which means it is easy to replace
- Precision: 0,2 % of [Max]
- Permissible ambient temperature -10 °C/40 °C



























Accessories

- Internal rechargeable battery pack for load support, operating time up to 70 h without backlight, charging time approx. 12 h, KERN HFD-A04
- Charging station for external battery charging, scope of delivery: charging station, exchangeable battery, mains adapter, KERN HFD-A07
- 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, HFD 10T: KERN HFD-A03
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, KERN HFD-A06

| | | | | | | | | | |
|----------|--|--|--|--|--|---------|--|---------|--|
| STANDARD | | | | | | OPTION | | FACTORY | |
| | | | | | | | | | |
| HFD-IP | | | | | | +3 DAYS | | HFD-M | |

| Model | Weighing capacity [Max] kg | Readability [d] g | Net weight approx. kg | Dimensions | | | | | | | Option | | |
|---|----------------------------------|-------------------------|-----------------------------|------------|-----|-----|-----|-----|-------|--------------|---------------------------|----------|--|
| | | | | A | B | C | D | E | F = G | Verification | DAkkS Calibr. Certificate | | |
| | | | | mm | mm | mm | mm | mm | mm | KERN | DAkkS KERN | | |
| Triple range balance switches automatically to the next largest weighing capacity [Max] and readability [d] | | | | | | | | | | | | | |
| HFD 600K-1 | 150 300 600 | 50 100 200 | 9 | 194 | 129 | 145 | 421 | 383 | 50,8 | - | - | 963-130H | |
| HFD 1T-4 | 300 600 1500 | 100 200 500 | 9 | 194 | 129 | 145 | 421 | 383 | 50,8 | - | - | 963-130H | |
| HFD 3T-3 | 600 1500 3000 | 200 500 1000 | 10 | 194 | 129 | 145 | 421 | 383 | 50,8 | - | - | 963-132H | |
| HFD 6T-3 | 1500 3000 6000 | 500 1000 2000 | 15 | 194 | 129 | 145 | 477 | 426 | 68,3 | - | - | 963-132H | |
| HFD 10T-3 | 3000 6000 12000 | 1000 2000 5000 | 20 | 194 | 129 | 145 | 573 | 510 | 82,5 | - | - | 963-133H | |
| Protection against dust and water splashes IP67 | | | | | | | | | | | | | |
| HFD 600K-1IP | 150 300 600 | 50 100 200 | 9 | 194 | 129 | 145 | 421 | 383 | 50,8 | - | - | 963-130H | |
| HFD 1T-4IP | 300 600 1500 | 100 200 500 | 9 | 194 | 129 | 145 | 421 | 383 | 50,8 | - | - | 963-130H | |
| HFD 3T-3IP | 600 1500 3000 | 200 500 1000 | 10 | 194 | 129 | 145 | 421 | 383 | 50,8 | - | - | 963-132H | |
| HFD 6T-3IP | 1500 3000 6000 | 500 1000 2000 | 15 | 194 | 129 | 145 | 477 | 426 | 68,3 | - | - | 963-132H | |
| HFD 10T-3IP | 3000 6000 12000 | 1000 2000 5000 | 20 | 194 | 129 | 145 | 573 | 510 | 82,5 | - | - | 963-133H | |
| 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. | | | | | | | | | | | | | |
| HFD 600K-1M | 600 | 200 | 9 | 194 | 129 | 145 | 421 | 383 | 50,8 | 965-130H | - | 963-130H | |
| HFD 1T-4M | 1500 | 500 | 9 | 194 | 129 | 145 | 421 | 383 | 50,8 | 965-130H | - | 963-130H | |
| HFD 3T-3M | 3000 | 1000 | 10 | 194 | 129 | 145 | 421 | 383 | 50,8 | 965-132H | - | 963-132H | |
| HFD 6T-3M | 6000 | 2000 | 15 | 194 | 129 | 145 | 477 | 426 | 68,3 | 965-132H | - | 963-132H | |
| HFD 10T-3M | 12000 | 5000 | 20 | 194 | 129 | 145 | 573 | 510 | 82,5 | 965-133H | - | 963-133H | |

Pictograms

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

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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

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