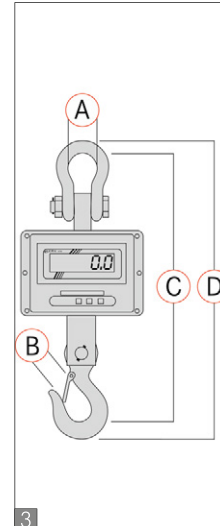


# Crane scale KERN HFM



## High resolution industrial crane scale up to 10 tonnes

### Features

- **1** With the TÜV certification mark, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments) and EN 61010-1 (Electrical safety)
- **Professional device for robust applications** in production, quality control, logistics etc. Because of its stable construction and robust design, it is ideal for continuous use in industrial applications
- **High mobility:** thanks to battery operation, compact construction and low weight, it is suitable for use in several locations (production, warehouse, dispatch department, ...)
- **Adaptation to unstable environmental conditions** by changing the readout
- **Hook with safety catch**, revolving
- **Rechargeable battery pack** internal, standard, operating time up to 50 h, charging time approx. 14 h

- **Adjusting program CAL**, external test weights at an additional price, see page 143 ff.
- **Data 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
- **2 Radio remote control** standard. Range up to 20 m. All functions can be selected (excl. ON/OFF). WxDxH 48x10x95 mm. Batteries included, 2 x 1,5 V AAA

### Technical data

- Superior display size: digit height 30 mm. Luminescent LED display for easy reading of the weight, even from a distance or in poor lighting conditions
- Precision: 0.2 % from [Max]
- Permissible ambient temperature 0 °C / 40 °C

#### STANDARD



#### OPTION



Model	Weighing range [Max] kg	Readout [d] g	Net weight approx. kg	Dimensions housing WxDxH mm	3 Dimensions					Options			
					A	B	C	D		DKD Calibr. Certificate		ISO Calibr. Certificate	
					mm	mm	mm	mm		DKD KERN		ISO KERN	
<b>KERN HFM 1T0.1</b>	1000	100	15	270x175x200	80	40	540	610		963-130		961-104	
<b>HFM 3T0.5</b>	3000	500	16,5	270x175x200	75	50	540	610		on request		961-104	
<b>HFM 5T0.5</b>	5000	500	25	300x190x230	75	50	650	730		on request		961-105	
<b>HFM 10T1</b>	10000	1000	37	300x190x230	100	60	750	840		on request		961-106	

# KERN Pictograms



**Internal adjusting (CAL):** Quick setting of the balance's accuracy with internal adjusting weight (motordriven).



**Adjusting program (CAL):** For quick setting of the balance's accuracy. External adjusting weight required.



**Memory:** Balance contains memories, e.g. for item data, weighing data, tare weights etc. PLU.



**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 peripheral devices. High tolerance against electromagnetic disturbance.



**USB data interface:** To connect the balance to a printer, PC or other peripheral devices.



**Bluetooth data interface:** To transfer data from the balance to a printer, PC or other peripheral devices.



**Control outputs (optocoupler, digital I/O):** to connect relays, signal lamps, valves, etc.



**Interface for second balance:** for direct connection of a second balance.



**Network interface:** For connecting the scale to an Ethernet network. With KERN products you can also use a universal RS-232/LAN converter.



**GLP/ISO record keeping:** of weighing data with date, time and identification-no. Only with printers from KERN.



**Piece counting:** Reference quantities selectable. Display can be switched from piece to weight.



**Recipe level A:** Separate memory for the weight of the tare container and the recipe ingredients (net total).



**Recipe level B:** Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through displays.



**Recipe level C:** Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through displays. Additional convenient functions, such as bar-code and back calculation functions.



**Percentage determination:** Determining the deviation in % from the target value (100%).



**Weighing units:** Can be switched to e. g. non-metric units at the touch of a key. See balance model. Please refer to KERN's website for more details.



**Weighing with tolerance range:** Upper and lower limiting can be programmed individually, e.g. dosing/sorting and portioning.



**Vibration-free weighing:** (Animal weighing program) Vibrations are filtered out so that a stable weight is obtained.



**Spray and dust protection IPxx:** The type of protection is shown by the pictogram. For details see the glossary.



**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.



**Mains adapter:** 230V/50Hz in standard version for Germany. On request GB, AUS or USA version.



**Power supply:** integrated in balance. 230V/50Hz in Germany. More standards e. g. GB, AUS, USA on request.



**Strain gauges:** Electrical resistor on an elastic deforming body.



**Tuning fork principle:** A resonating body is electromagnetically excited, causing it to oscillate.



**Electromagnetic force compensation:** Coil in a permanent magnet. For the most accurate weighings.



**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.



**DKD calibration possible:** The time required for DKD calibration is shown in days in the pictogram.



**Package shipment:** The time required to manufacture the product internally is shown in days in the pictogram.



**Pallet shipment:** The time required to manufacture the product internally is shown in days in the pictogram.



**Warranty:** The warranty period is shown in the pictogram.

## Precision is our business

To ensure the high precision of your balance KERN offers you the the appropriate test weight package for your balance, consisting of the test weight, box and DKD certificate, as proof of its accuracy ... the best pre-requisite for proper balance calibration.

In the extensive KERN test weight range, you will find test weights in the international OIML error limit classes: E1, E2, F1, F2, M1, M2, M3 with weights from 1 mg - 2000 kg.

The KERN DKD calibration laboratory for electronic balances and weights has been accredited by DKD since 1994 and today is one of the most modern and best-equipped DKD calibration laboratories for balances, test weights and force-measurement in Europe.

(DKD = German Calibration Service)

Thanks to the high level of automation, we can carry out DKD calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

### Range of services:

- DKD calibration of balances with a maximum load of up to 6 t
- DKD calibration of weights in the range of 1 mg – 500 kg
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DKD calibration certificates in the following languages  
D, GB, F, I, E, NL, PL

Do you have questions about your scale, the corresponding test weight or the calibration service? Your KERN specialist dealer will be pleased to assist you.

## Your KERN specialist dealer: