

Crane Scale KERN HFD



Robust, high-resolution crane scale up to 12 t, also with optional verification 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 (excl. ON/OFF). W×D×H $65\times24\times100$ mm. Batteries included, $1\times12V$, 23A

Crane Scale KERN HFD



• 11 With the TÜV certification mark, the scales

(Non-fixed load lifting attachments/Breakage

resistance) and EN 61010-1 (Electrical safety)

design, it is ideal for continuous use in industrial

· Because of its stable construction and robust

• Tare: Resets the display to "0" when there is a

load on the scale. Now removed or added loads

meet the requirements of the standard EN 13155



KERN HFD/HFD-IP

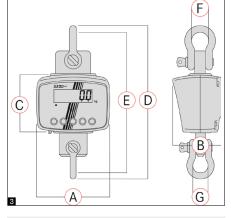
• Hold function: the weight display is "frozen" when the Hold button is pressed

KERN HFD-IP

· 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

KERN HFD-M

- · The models with M add-on can be verified optionally and because of this they are ideal for use in verified applications such as, for example, calculation of a total price, based on weight
- · Will support you when weighing freight in a SOLAS compliant manner
- · Sleep function: when the sleep button is pressed, the weight display is switched off, but the value remains stored. This can extend the battery life



Technical data

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

Accessories

- · Charging station for external battery charging, scope of delivery: charging station, exchangeable battery, mains adapter, KERN HFD-A07
- 2 Hook with safety catch, cast steel, galvanised and lacquered, non-revolving, suitable for models

[Max] ≤ 1t: KERN HFD-A01

[Max] = 3t: KERN HFD-A02

[Max] ≥ 6t: KERN HFD-A03

965-133H

963-133H

· Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, KERN HFD-A06

STANDARD

Features

environment

are directly displayed









12000

5000

20

194 129









HFD-IP										
Model	Weighing capacity	Readability	Net	Dimensions						Options
			weight							Verification DAkkS Calibr. Certificate
	[Max]	[d]	ca.	Α	В	С	D	Ε	F = G	MIII DAkkS
KERN	kg	g	kg	mm	mm	mm	mm	mm	mm	KERN KERN
Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d]										
and when the load is fully removed, the balance switches back to the lower range										
HFD 600K-1	150 300 600	50 100 200	9	194	129	160	422	384	50,8	- 963-130H
HFD 1T-4	300 600 1500	100 200 500	9	194	129	160	422	384	50,8	- 963-130H
HFD 3T-3	600 1500 3000	200 500 1000	10	194	129	160	457	413	58	- 963-132H
HFD 6T-3	1500 3000 6000	500 1000 2000	15	194	129	160	518	467	68,3	- 963-132H
HFD 10T-3	3000 6000 12000	1000 2000 5000	22	194	129	160	584	521	82,5	- 963-133H
Protection against dust and water splashes IP67										
HFD 600K-1IP	150 300 600	50 100 200	9	194	129	160	422	384	50,8	- 963-130H
HFD 1T-4IP	300 600 1500	100 200 500	9	194	129	160	422	384	50,8	- 963-130H
HFD 3T-3IP	600 1500 3000	200 500 1000	10	194	129	160	457	413	58	- 963-132H
HFD 6T-3IP	1500 3000 6000	500 1000 2000	15	194	129	160	518	467	68,3	- 963-132H
HFD 10T-3IP	3000 6000 12000	1000 2000 5000	22	194	129	160	584	521	82,5	- 963-133H
Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.										
	The initial verificati	on is not possible after	er deliver	y. Plea:	se info	rm the	full ad	dress	of the loca	eation of use for the initial verification.
HFD 600K-1M	600	200	9	194	129	160	422	384	50,8	965-130H 963-130H
HFD 1T-4M	1500	500	9	194	129	160	422	384	50,8	965-130H 963-130H
HFD 3T-3M	3000	1000	10	194	129	160	457	413	58	965-132H 963-132H
HFD 6T-3M	6000	2000	15	194	129	160	518	467	68,3	965-132H 963-132H

HFD 10T-3M

521 82,5

584

160

BALANCES & TEST SERVICE 2024

KERN Pictograms



Conformity Assessment

conformity assessment is

specified in the pictogram

The time required for

DAkkS calibration

DAkkS calibration

pictogram

. The time required for

is shown in days in the

The time required for

Package shipment

The time required for

in the pictogram

Pallet shipment

in the pictogram

The time required for

internal shipping prepa-

rations is shown in days

internal shipping prepa-

rations is shown in days

in days in the pictogram

Factory calibration (ISO)

Factory calibration is shown

possible (DKD)

M

DAkkS

+3 DAYS

ISO

á...



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



EasyTouch

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.



KERN Universal Port (KUP)

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



RS-232 Data interface

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 peripherals



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

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



Interface for second balance

For direct connection of a second balance



Network interface

For connecting the scale to an Ethernet network



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 intern

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



GLP/ISO log Printer

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 recipés with name and target value of the recipe ingredients. User guidance through display



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 %)



Weighing units

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



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 plug-in power supply

with universal input and optional input socket adapters for A) EU, CH, GB B) EU, CH, GB, US C) EU, CH, GB, US, AUS



230V/50Hz in standard

version for EU, CH. On request GB, USA or AUS version available

Plug-in power supply



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

