## **BALANCES & TEST SERVICE 2023**

HANGING SCALES/CRANE SCALES

### Crane scale KERN HCD



## High-resolution crane scale for loads up to 300 kg

### Features

- Fully-equipped crane scale for low to medium load ranges. The solid design guarantees that extra level of safety (TÜV tested). Thanks to the large LCD display and the remote control which is delivered as standard, it can also be operated safely from a distance and results can be read off
- 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)
- High level of mobility: thanks to battery pack operation, compact construction and low weight, it is suitable for use in several locations (production, warehouse, dispatch department, etc.)
- Hold function: For easy reading of the weighing result, the display can be "frozen" in different ways. Either automatically when

STANDARD OPTION

the weighing value remains unchanged or manually by pressing the Hold key

- Tare: Resets the display to "0" when there is a load on the scale. Now removed or added loads are directly displayed
- Battery level indicator, LED visual display
  Large high-contrasted display that is easy to read
- Standby function: display automatically switched off after 5 min without a change of load. Automatic activation with the touch of a key
- Hook with safety catch, revolving
- Shackle and safety catch made of nickel-plated steel
- Infrared remote control standard. Range up to 20 m. All functions can be selected.
   W×D×H 65×24×100 mm. Batteries included

### **Technical data**

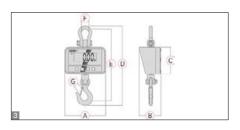
- Backlit LCD display, digit height 28 mm
  Ready for use: Batteries standard,
- 4×1.5 V AA, operating time approx. 100 h • Precision: 0,2 % of [Max]
- Permissible ambient temperature 5 °C/40 °C

### Accessories

 Internal rechargeable battery pack for load receptor, operating time up to 50 h without backlight, charging time approx. 12 h.
 Weighing is not possible during the charging process, KERN HCD-A01

Model	Weighing capacity	Readability	Net weight approx.	I Dimensions							Option DAkkS Calibr. Certificate
	[Max]	[d]		А	В	С	D	Е	F	G	DAkkS
KERN	kg	g	kg	mm	mm	mm	mm	mm	mm	mm	KERN
HCD 60K-2	60	20	1,2	150	79,3	97,7	276,5	246,5	26	23,5	963-129H
HCD 100K-2	150	50	1,2	150	79,3	97,7	276,5	246,5	26	23,5	963-129H
HCD 300K-1	300	100	1,2	150	79,3	97,7	276,5	246,5	26	23,5	963-129H
	Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and r										and readout [d]
		and	when the loa	id is fully	removed,	the balan	ce switch	es back to	the lowe	r range	
HCD 100K-2D	60   150	20   50	1,2	150	79,3	97,7	276,5	246,5	26	23,5	963-129H
HCD 300K-2D	150   300	50   100	1.2	150	79.3	97.7	276.5	246.5	26	23.5	963-129H





KERN

### **BALANCES & TEST SERVICE 2023**

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 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

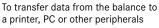
### USB data interface:

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:

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



### Interface for second balance:

For direct connection of a second balance

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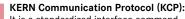
mLab



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:

With weight, date and time. Only with KERN printers.



Reference quantities selectable. PCS Display can be switched from piece to weight

### Recipe level A:

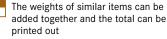
The weights of the recipe ingredients RECIPE can be added together and the total weight of the recipe can be printed out



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:

the target value (100 %)

%

# B

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

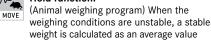


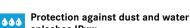
\*The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by KERN & SOHN GmbH is under

🔘 www.imlab.eu - info@imlab.eu

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: M--





splashes IPxx: The type of protection is shown in the pictogram.

Suspended weighing: Load support with hook on the UNDER 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, USA C) EU, CH, GB, USA, AUS



Plug-in power supply: 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



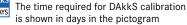
DAkkS calibration possible (DKD):

The time required for internal shipping prepa-

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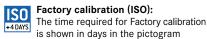
rations is shown in days in the pictogram

rations is shown in days in the pictogram



Package shipment:

Pallet shipment:



1 DAY

2 DAYS

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