

Industrial Platform Scale KERN EOC



Robust and high-resolution platform scale with practical Flip/Flop display device for greatest ease of use



Weighing instead of counting! Because the counting function is so easy to use, you can rapidly record large numbers of small parts – which saves time and money

Practical Flip/Flop display device: flexible positioning e.g. free-standing or screwed to the wall (optional). By rotating the upper housing shell you can determine the angle of the display as well as the cable outlet. Factory Option for an additional cost, delivery time + 2 working days, KERN KIB-M01, see Accessories on the right, please indicate when placing your order

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Features

- High mobility: thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (laboratory, production, quality control, commissioning etc.)
- **1** Platform: weighing plate of stainless steel, painted steel base, silicone-coated aluminium load cell with protection against dust and water splashes IP65. Level indicator and levelling feet for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- Weighing with tolerance range (checkweighing): a visual and audible signal helps with portioning, dispensing or grading
- Hold function: When the weighing conditions are unstable, a stable weight is calculated determining an average value
- Benchtop stand incl. wall mount for display device as standard

- Protective working cover included with delivery
- Searching and remote control of the balance using external control devices or computers with the KERN Communication Protocol (KCP). KCP is a standardised interface command structure for KERN balances and other instruments which allows you to recall and manage all relevant parameters and device functions. You can therefore simply connect KERN devices with KCP to computers, industrial control systems and other digital systems. In a large number of cases the KCP is compatible with the MT-SICS protocol.

Technical data

- Large backlit LCD display, digit height 25 mm
- Weighing plate dimensions, stainless steel, W×D×H
 - A** 300×300×110 mm
 - B** 500×400×120 mm
 - C** 600×500×150 mm
 - D** 950×500×60 mm
- Dimensions of display device W×D×H 268×115×80 mm

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

Accessories

- Protective working cover, scope of delivery 5 items, KERN EOC-A01S05
- Internal rechargeable battery pack, operating time up to 43 h without backlight, charging time approx. 3 h, KERN KFB-A01
- **2** for models with weighing plate size **A - C**: Stand to be screwed onto the platform, height of stand approx. 330 mm, KERN EOC-A05
- **3** Mount to fasten the display device to the platform, KERN EOC-A03
- Benchtop stand incl. wall mount for display device, KERN EOC-A04
- Modification of the display device, to move the cable outlet to the front of the display device, ideal e.g. for subsequent wall installation of the display device (standard configuration ex works: rear outlet), Factory Option, delivery time + 2 working days, KERN KIB-M01

STANDARD



OPTION



| Model | Weighing capacity [Max] kg | Readability [d] g | Reproducibility g | Linearity g | Smallest part weight (Normal) g/piece | Cable length spiral cable* approx. m | Net weight approx. kg | Weighing plate | Options DAKKS Calibr. Cert. DAKKS KERN |
|--|----------------------------|-------------------|-------------------|-------------|---------------------------------------|--------------------------------------|-----------------------|----------------|--|
| Multi-range balance with high-resolution display, 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 | | | | | | | | | |
| EOC 10K-4 | 6 15 | 0,2 0,5 | 0,2 0,5 | ± 0,6 1,5 | 5 | 3 | 6 | A | 963-128 |
| EOC 30K-4 | 15 35 | 0,5 1 | 0,5 1 | ± 1,5 3 | 10 | 3 | 9 | B | 963-128 |
| EOC 30K-4S | 15 35 | 0,5 1 | 0,5 1 | ± 1,5 3 | 10 | 3 | 6 | A | 963-128 |
| EOC 60K-3 | 30 60 | 1 2 | 1 2 | ± 3 6 | 20 | 3 | 7 | A | 963-129 |
| EOC 60K-3L | 30 60 | 1 2 | 1 2 | ± 3 6 | 20 | 3 | 9 | B | 963-129 |
| EOC 100K-3 | 60 150 | 2 5 | 2 5 | ± 6 15 | 50 | 3 | 6 | A | 963-129 |
| EOC 100K-3L | 60 150 | 2 5 | 2 5 | ± 6 15 | 50 | 3 | 9 | B | 963-129 |
| EOC 300K-3 | 150 300 | 5 10 | 5 10 | ± 15 30 | 100 | 3 | 9 | B | 963-129 |
| Multi-range balance without high-resolution display | | | | | | | | | |
| EOC 6K-3 | 3 6 | 1 2 | 1 2 | ± 3 6 | 2,5 | 3 | 6 | A | 963-128 |
| EOC 10K-3 | 6 12 | 2 5 | 2 5 | ± 6 15 | 5 | 3 | 6 | A | 963-128 |
| EOC 30K-3 | 15 35 | 5 10 | 5 10 | ± 15 30 | 10 | 3 | 6 | A | 963-128 |
| EOC 30K-3L | 15 35 | 5 10 | 5 10 | ± 15 30 | 10 | 3 | 9 | B | 963-128 |
| EOC 60K-2 | 30 60 | 10 20 | 10 20 | ± 30 60 | 20 | 3 | 7 | A | 963-129 |
| EOC 60K-2L | 30 60 | 10 20 | 10 20 | ± 30 60 | 20 | 3 | 9 | B | 963-129 |
| EOC 100K-2 | 60 150 | 20 50 | 20 50 | ± 60 150 | 50 | 3 | 6 | A | 963-129 |
| EOC 100K-2L | 60 150 | 20 50 | 20 50 | ± 60 150 | 50 | 3 | 9 | B | 963-129 |
| EOC 100K-2XL | 60 150 | 20 50 | 20 50 | ± 60 150 | 50 | 3 | 19 | C | 963-129 |
| EOC 100K-2XXL | 60 150 | 20 50 | 20 50 | ± 60 150 | 100 | *2,7 | 17 | D | 963-129 |
| EOC 300K-2 | 150 300 | 50 100 | 50 100 | ± 150 300 | 100 | 3 | 9 | B | 963-129 |
| EOC 300K-2L | 150 300 | 50 100 | 50 100 | ± 150 300 | 100 | 3 | 19 | C | 963-129 |
| EOC 6K-4A | 6 | 0,5 | 0,5 | ± 1,5 | 2,5 | 3 | 6 | A | 963-128 |
| EOC 10K-3A | 12 | 1 | 1 | ± 3 | 5 | 3 | 7 | A | 963-128 |
| EOC 20K-3A | 24 | 2 | 2 | ± 6 | 10 | 3 | 6 | A | 963-128 |
| EOC 60K-3A | 60 | 5 | 5 | ± 15 | 20 | 3 | 7 | A | 963-129 |
| EOC 100K-2A | 120 | 10 | 10 | ± 30 | 50 | 3 | 9 | B | 963-129 |

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 recipes 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

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

Conformity Assessment
The time required for conformity assessment is specified in the pictogram

DAkkS calibration possible (DKD)
The time required for DAkkS calibration is shown in days in the pictogram

Factory calibration (ISO)
The time required for Factory 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

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