PROFESSIONAL MEASURING
SINCE 1844

KERN

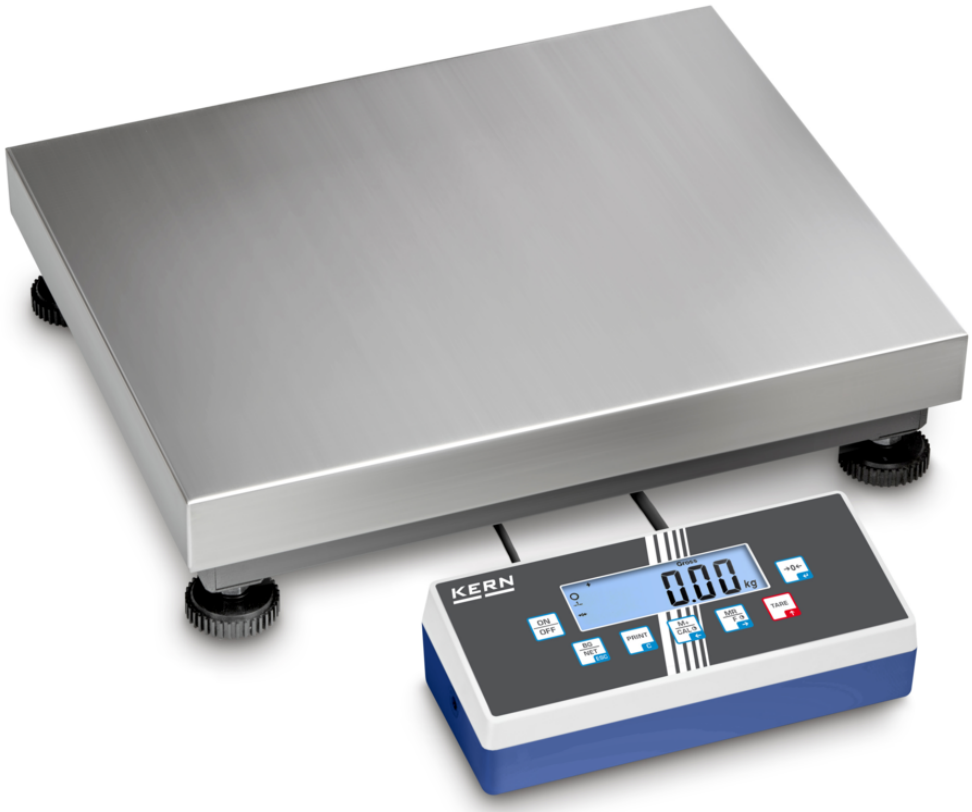
Product brochure

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# KERN IOC 30K-4

High-resolution allround platform scale with a wide range of communication options

ENGLISH




## CONTACT

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## APPLICATION EXAMPLE








## FEATURES

- Industry 4.0: A wide range of (optional) data interfaces allows easy transfer of weighing data to tablets, laptops, PCs, networks, smartphones, printers, etc.
- 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 Only possible through data interface RS-232, other interfaces on request.
- 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.)
- 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

## TECHNICAL DATA

- Large backlit LCD display, digit height 25 mm
- Weighing platform dimensions, stainless steel, W×D×H 400×300×110 mm
- Dimensions of display device W×D×H 268×115×80 mm
- Cable length of display device approx. 3 m
- Net weight approx. 8 kg
- Permissible ambient temperature -10 °C/40 °C

## MAIN SCOPE OF APPLICATIONS

- Warehouse logistics
- Goods outwards
- Quantity counting

## PLEASE NOTE FOR YOUR ORDER

- *In addition to the RS-232 data interface, which is integrated as standard, only one other data interface can be installed and operated



## PICTOGRAMS

Standard




Option




Factory



## MODEL OVERVIEW

| Model | Weighing capacity [Max] | Readability [d] | Dimensions weighing surface | Net weight approx. |
|---|---|---|---|---|
| IOC 6K-4 | 3 kg; 6 kg | 0,0001 kg; 0,0002 kg | 300×300 mm | 6 kg |
| IOC 10K-4 | 6 kg; 15 kg | 0,0002 kg; 0,0005 kg | 300×240 mm | 6 kg |
| IOC 10K-4L | 6 kg; 15 kg | 0,0002 kg; 0,0005 kg | 400×300 mm | 8 kg |
| IOC 30K-4 | 15 kg; 30 kg | 0,0005 kg; 0,001 kg | 400×300 mm | 8 kg |
| IOC 60K-3 | 30 kg; 60 kg | 0,001 kg; 0,002 kg | 400×300 mm | 8 kg |
| IOC 60K-3L | 30 kg; 60 kg | 0,001 kg; 0,002 kg | 500×400 mm | 12 kg |
| IOC 100K-3 | 60 kg; 150 kg | 0,002 kg; 0,005 kg | 500×400 mm | 12 kg |
| IOC 100K-3L | 60 kg; 150 kg | 0,002 kg; 0,005 kg | 650×500 mm | 22 kg |
| IOC 300K-3 | 150 kg; 300 kg | 0,005 kg; 0,01 kg | 650×500 mm | 22 kg |

## ACCESSORIES

| Model | Description |
|---|---|
| EOB-A02B | Tripod EOB-A02B, Height of stand approx. 1000 mm |

| Model | Description |
|---|---|
| EOC-A01 | Protective working cover EOC-A01 |
| EOC-A03 | Mounting metal sheet EOC-A03 |
| EOC-A04 | Wall mount for display device EOC-A04 |
| EOC-A05 | Tripod EOC-A05, Height of stand approx. 330 mm |
| EOC-A12 | RS232 interface cable EOC-A12 |
| KFB-A01 | Rechargeable battery pack KFB-A01 (Pb, 6 V, 1.2 Ah) |
| KIB-A01 | Alibi memory option KIB-A01, incl. USB interface |
| KIB-A02 | Ethernet interface KIB-A02 |
| KIB-A03 | USB Module KIB-A03 |
| KIB-A05 | Interface for traffic lights KIB-A05 |
| KIB-A06 | Signal light KIB-A06 |
| KIB-A10 | WiFi module KIB-A10 |
| KIB-A13 | Alibi memory option KIB-A13 |
| YGR-01 | ESD grounding plug incl. grounding cable YGR-01 |
| YKA-20 | Power adapter YKA-20 (12 V, 1000 mA \| 100 V - 240 V AC 50/60 Hz 0.4 A max \| EURO, UK, US) |
| YKC-01 | Thermal printer YKC-01 |
| YKH-01 | Thermal printer YKH-01 |
| YKI-10 | RS232-Ethernet adapter YKI-10 (RS-232 standard, Ethernet, RS-485) |
| YKI-11 | RS232-Ethernet adapter YKI-11 (Ethernet, RS-232 standard - 2x) |
| YKI-12 | RS232-WiFi adapter YKI-12 |
| YKT-01 | Needle printer YKT-01 |
| YRO-01 | roller conveyor YRO-01 |

## SOFTWARE

| Model | Description |
|---|---|
| SCD-4.0-DL | Software SCD-4.0-DL (Scope of supplies: Download link for 1 license) |
| SCD-4.0-DLS05 | Software SCD-4.0-DLS05 (Scope of supplies: Download link for 5 licenses) |
| SCD-4.0-PRO-DL | Software SCD-4.0-PRO-DL (Scope of supplies: Download link for 1 license) |
| SCD-4.0-PRO-DL-AS05 | Software SCD-4.0-PRO-DL-AS05 (Scope of supplies: Download link for 5 licenses) |

## SERVICES

| Model | Description |
|---|---|
| 961-248 | Adjustment at the location of installation 961-248 (Not in combination with verification) |
| 963-128 | DAkkS calibration certificate 963-128 |
| 969-517 | Confirmation of the manufacturer's specification (only in combination with DAkkS calibration certificate)969-517 |
| 970-017 | Warranty extension (+3 years) 970-017 |
| KIB-M01 | Modification of the display device KERN KIB-M01 (to move the cable outlet to the front of the display device) |

# KERN Pictogram Overview

| | |
|---|---|
|  | External adjustment: Adjusting accuracy using external adjustment weight |
|  | Data interface RS-232: For connection to printers, PCs or other peripheral devices for data transfer over longer distances. Network in bus topology possible |
|  | KERN Communication Protocol (KCP): 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 |
|  | Piece counting: Reference quantities selectable. Display can be switched from piece to weight |
|  | Sum function: The weight values of weighed items can be added together and the total printed out |
|  | Percentage determination: determining the deviation in % from the target value (100 %) |
|  | Measuring with tolerance range (checkweighing): Upper and lower limit values can be programmed, e.g. for sorting, portioning or for measuring coatings or material thicknesses. The process is supported by an acoustic and/or optical signal |
|  | Hold function: When the weighing conditions are unstable, a stable weight is calculated as an average value |
|  | Protection against dust and water splashes IP65 |
|  | Universal plug-in power supply: With universal input and optional input socket adapters for EU, CH, GB or EU, CH, GB, US or EU, CH, GB, US, AUS |
|  | Weighing principle Strain gauges: Electrical resistor on an elastic deforming body |
|  | Package shipment by courier service: The duration of internal product provision is one day |
|  | Rechargeable battery pack: Rechargeable set |
|  | Accredited calibration (DKD): The duration of the accredited calibration is 3 working days |
|  | Alibi memory: Secure, electronic archiving of measuring results, complying with the 2014/31/EU standard |
|  | Data Interface USB: For connection to printers, PCs or other peripheral devices |
|  | Data interface WiFi: For data transfer to printers, PCs or other peripheral devices |
|  | Network interface: For connecting the measuring device to an Ethernet network |

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