PROFESSIONAL MEASURING
SINCE 1844

KERN

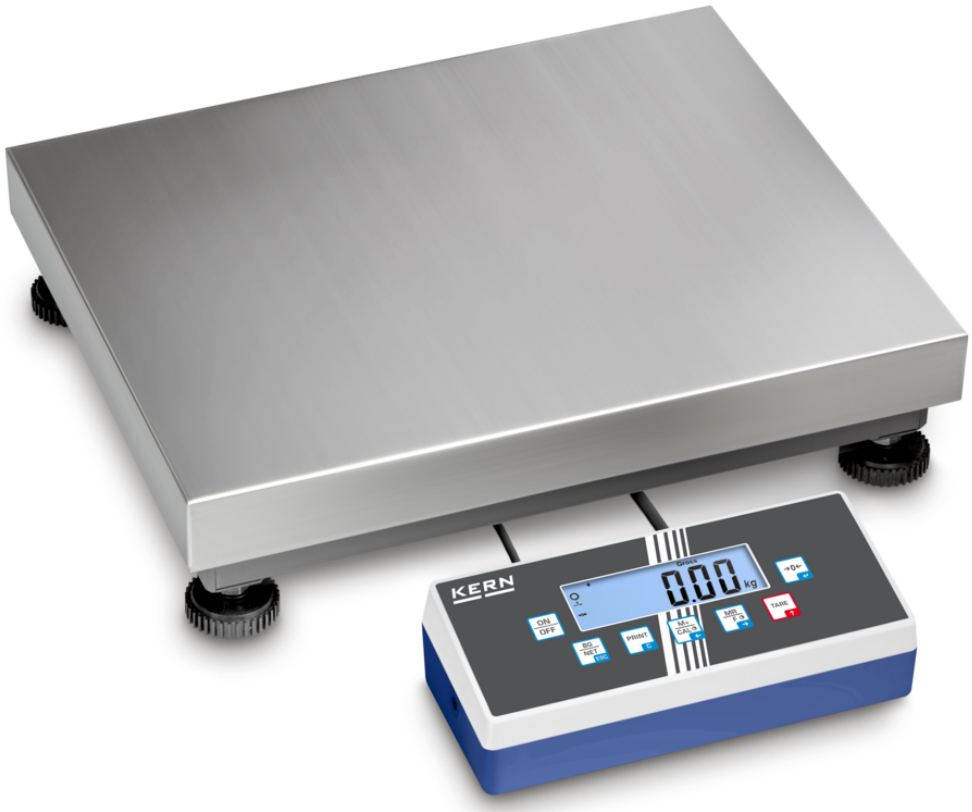
Product brochure

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KERN IOC 10K-3LM

Allround platform scale with a wide range of communication options, verification optional

ENGLISH



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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

- For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order, the initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification
- In addition to the RS-232 data interface, which is integrated as standard, only one other data interface can be installed and operated
- It is essential that a verified balance which transfers measurements to external devices using an interface, has an alibi memory KIB-A13. It is not possible to upgrade later.

PICTOGRAMS

Standard



Option



Factory



MODEL OVERVIEW

Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Dimensions weighing surface	Net weight approx.
IOC 6K-3M	3 kg; 6 kg	0,001 kg; 0,002 kg	0,001 kg; 0,002 kg	0,02 kg; 0,04 kg	300×300 mm	6 kg
IOC 10K-3LM	6 kg; 15 kg	0,002 kg; 0,005 kg	0,002 kg; 0,005 kg	0,04 kg; 0,1 kg	400×300 mm	8 kg
IOC 10K-3M	6 kg; 15 kg	0,002 kg; 0,005 kg	0,002 kg; 0,005 kg	0,04 kg; 0,1 kg	300×240 mm	6 kg
IOC 30K-3M	15 kg; 30 kg	0,005 kg; 0,01 kg	0,005 kg; 0,01 kg	0,1 kg; 0,2 kg	400×300 mm	8 kg
IOC 60K-2LM	30 kg; 60 kg	0,01 kg; 0,02 kg	0,01 kg; 0,02 kg	0,2 kg; 0,4 kg	500×400 mm	12 kg
IOC 60K-2M	30 kg; 60 kg	0,01 kg; 0,02 kg	0,01 kg; 0,02 kg	0,2 kg; 0,4 kg	400×300 mm	8 kg
IOC 100K-2LM	60 kg; 150 kg	0,02 kg; 0,05 kg	0,02 kg; 0,05 kg	0,4 kg; 1 kg	650×500 mm	22 kg

Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Dimensions weighing surface	Net weight approx.
IOC 100K-2M	60 kg; 150 kg	0,02 kg; 0,05 kg	0,02 kg; 0,05 kg	0,4 kg; 1 kg	500×400 mm	12 kg
IOC 300K-2M	150 kg; 300 kg	0,05 kg; 0,1 kg	0,05 kg; 0,1 kg	1 kg; 2 kg	650×500 mm	22 kg
IOC 600K-1M	300 kg; 600 kg	0,1 kg; 0,2 kg	0,1 kg; 0,2 kg	2 kg; 4 kg	800×600 mm	32 kg

ACCESSORIES

Model	Description
AFH 13	Converter RS232 to USB AFH 13
EOB-A02B	Tripod EOB-A02B, Height of stand approx. 1000 mm
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

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SOFTWARE

Model	Description
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
965-228	Verification / Conformity assessment according to NAWI (2014/31/EU) 965-228
969-517	Confirmation of the manufacturer's specification (only in combination with DAkkS calibration certificate)969-517
970-016	Warranty extension (+3 years) 970-016
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
	Conformity assessment: The duration of the conformity assessment is 3 working days

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