PROFESSIONAL MEASURING
SINCE 1844

KERN

Product brochure

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KERN IXC 100K-3-EX2

Comfort and safety combined: Stainless steel platform scale with intuitive operation for hazardous areas, as an option with external rechargeable battery pack

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CONTACT

KERN & SOHN GmbH
Ziegelei 1
72336 Balingen
Germany

+49 7433 9933-0
info@kern-sohn.com
www.kern-sohn.com

FEATURES

- Explosion protection: Category 3 scale, suitable for use in zones 2 (gas) and 22 (dust) as per Directive 2014/34/EU
- ATEX class for gas: II 3G Ex ec [ic] IIC T4 Gc
- ATEX class for dust: II 3D Ex tc [ic] IIIC T80°C Dc
- Option of rechargeable battery pack for mobile use in hazardous areas (KERN YKR-06-EX1, see accessories) and additional rechargeable battery pack (KERN YKR-04-EX2, see accessories) for continuous operation of the balance, even when charging
- Tough industry standard suitable for use in harsh industrial applications
- Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- The exchange of data and control commands is optional using up to four interfaces to suit individual requirements: two wired connections (RS-232, Ethernet, USB or analogue module) and two wireless connections (WiFi, Bluetooth)
- Each interface can be set up separately, e.g.:
  - Interface 1 (WiFi): Continuous sending to a PC for documentation of a process
  - Interface 2 (RS-232): Print stable weight
  - Interface 3 (analogue module): Controlling a device when the target weight is reached
  - Interface 4 (Bluetooth): Continuous sending to a tablet to monitor a process
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- Available as an option with alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further
- Platform: weighing plate of stainless steel, painted steel base, silicone-coated aluminium load cell with protection against dust and water splashes IP65
- Display device: stainless steel, protection against dust and water splashesIP65 / IP69, integrated power supply
- Note on mains connection: This device is certified for use in hazardous areas in Zones 2 and 22. It is therefore supplied with a mains cable approximately 2.5 m long, with open ends and without a mains plug. The connection must be carried out by a qualified electrician in accordance with EN 60079-14, for example via a junction box or a control cabinet. A suitable enclosure is required for this within the Ex zone. Alternatively, the connection may be made outside the Ex zone. A standard domestic socket is not intended for this purpose
- Superior display size: digit height 48 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions

TECHNICAL DATA

- Large backlit LCD display, digit height 48 mm
- Weighing platform dimensions W×D×H, stainless steel, 500×400×127 mm
- Dimensions of display device W×D×H 237,5×162,5×78 mm
- Mains cable with open ends, length approx. 2,5 m
- Permissible ambient temperature -10 °C/40 °C

MAIN SCOPE OF APPLICATIONS

- Chemical industry
- Pharmaceutical industry
- Food industry
- Wood industry, Wood processing
- Paints and varnishes
- Waste and recycling management
- Chemical and hazardous substance storage

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PLEASE NOTE FOR YOUR ORDER

- Only two wired connections (RS-232, Ethernet, USB or analogue module) and two wireless connections (WiFi, Bluetooth) can be used at the same time
- Wired interfaces are supplied without cables. The required shielded interface cable (Ø 3 – 6,5 mm) for hazardous areas must be provided by the operator
- When configuration as the battery-operated variant (KERN YKR-06-EX2, see accessories) is selected, the scale is fully designed for battery operation, i.e. mains operation is no longer envisaged. It is not possible to then convert back to mains operation

PICTOGRAMS

Standard



Option



Factory



MODEL OVERVIEW

Model	Weighing capacity [Max]	Readability [d]	Cable length	Dimensions weighing surface	Net weight approx.
IXC 6K-4-EX2	6 kg	200 mg		300×240 mm	7 kg
IXC 10K-4-EX2	15 kg	500 mg		300×240 mm	7 kg
IXC 10K-4L-EX2	15 kg	500 mg		400×300 mm	8 kg
IXC 30K-3-EX2	30 kg	1 g		400×300 mm	9 kg
IXC 30K-3L-EX2	30 kg	1 g		500×400 mm	12 kg
IXC 60K-3-EX2	60 kg	2 g		400×300 mm	8 kg

Model	Weighing capacity [Max]	Readability [d]	Cable length	Dimensions weighing surface	Net weight approx.
IXC 60K-3L-EX2	60 kg	2 g		500×400 mm	12 kg
IXC 100K-3-EX2	150 kg	5 g		500×400 mm	12 kg
IXC 100K-3L-EX2	150 kg	5 g		650×500 mm	20 kg
IXC 300K-3-EX2	300 kg	10 g		650×500 mm	22 kg

ACCESSORIES

Model	Description
IXC-A01	Tripod IXC-A01, Height of stand approx. 330 mm
IXC-A02	Tripod IXC-A02, Height of stand approx. 600 mm
KUM-01-EX2	RS-232 interface KUM-01-EX2
KUM-03-EX2	Interface USB-Device KUM-03-EX2
KUM-04-EX2	Ethernet interface KUM-04-EX2
KUM-05	WiFi interface KUM-05
KUM-06	Bluetooth BLE interface KUM-06
KUM-08-EX2	Analogue interface KUM-08-EX2
YKR-04-EX2	Battery - external KERN YKR-04-EX2, Li-Ion, 3,7 V
YKR-05-EX2	Charging station YKR-05-EX2
YKR-06-EX2	Configuration as battery-operated version of KERN KXC-EX2, IXC-EX2 and SXC-EX2 KERN YKR-06-EX2
YMM-06-EX2	Alibi memory with Real Time Clock YMM-06-EX2

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
961-249	Adjustment at the location of installation 961-249 (Not in combination with verification)

Model	Description
963-129	DAkkS calibration certificate 963-129
969-517	Confirmation of the manufacturer's specification (only in combination with DAkkS calibration certificate)969-517
970-107	Warranty extension (+2 years) 970-107

KERN Pictogram Overview

	External adjustment: Adjusting accuracy using external adjustment weight
	KERN IoT-Line balances – smart weighing solutions for the digital future
	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 %)
	Units can be switched to e.g. non-metric units
	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
	Load Cell: Protection against dust and water splashes IP65
	Display device: Protection against dust and water splashes IP65
	Protection against dust and water splashes IP69
	ATEX explosion protection: Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device.
	Weighing principle Strain gauges: Electrical resistor on an elastic deforming body
	Package shipment by courier service: The duration of internal product provision are four days
	EasyTouch: Suitable for the connection, data transmission and control through PC or tablet
	Data interface RS-232: For connection to printers, PCs or other peripheral devices for data transfer over longer distances. Network in bus topology possible
	Data Interface USB: For connection to printers, PCs or other peripheral devices
	Network interface: For connecting the measuring device to an Ethernet network
	Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements
	Accredited calibration (DKD): The duration of the accredited calibration is 3 working days
	Data interface WiFi: For data transfer to printers, PCs or other peripheral devices
	Data interface Bluetooth: For connection to printers, PCs or other peripheral devices
	Rechargeable battery pack: Rechargeable set

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