PROFESSIONAL MEASURING
SINCE 1844

KERN

Product brochure

31.10.2026

KERN IXC 100K-2M-EX2

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

ENGLISH



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

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
- 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
- It is essential that a verified balance which transfers measurements to external devices using an interface, has an alibi memory . 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]	Cable length	Dimensions weighing surface	Net weight approx.
IXC 6K-3M-EX2	3 kg; 6 kg	1 g; 2 g	1 g; 2 g	20 g; 40 g		300×240 mm	7 kg
IXC 10K-3LM-EX2	6 kg; 15 kg	2 g; 5 g	2 g; 5 g	40 g; 100 g		400×300 mm	8 kg

Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Cable length	Dimensions weighing surface	Net weight approx.
IXC 10K-3M-EX2	6 kg; 15 kg	2 g; 5 g	2 g; 5 g	40 g; 100 g		300×240 mm	7 kg
IXC 30K-3LM-EX2	15 kg; 30 kg	5 g; 10 g	5 g; 10 g	100 g; 200 g		500×400 mm	12 kg
IXC 30K-3M-EX2	15 kg; 30 kg	5 g; 10 g	5 g; 10 g	100 g; 200 g		400×300 mm	9 kg
IXC 60K-2LM-EX2	30 kg; 60 kg	10 g; 20 g	10 g; 20 g	200 g; 400 g		500×400 mm	12 kg
IXC 60K-2M-EX2	30 kg; 60 kg	10 g; 20 g	10 g; 20 g	200 g; 400 g		400×300 mm	9 kg
IXC 100K-2LM-EX2	60 kg; 150 kg	20 g; 50 g	20 g; 50 g	400 g; 1 kg		650×500 mm	20 kg
IXC 100K-2M-EX2	60 kg; 150 kg	20 g; 50 g	20 g; 50 g	400 g; 1 kg		500×400 mm	12 kg
IXC 300K-2M-EX2	150 kg; 300 kg	50 g; 100 g	50 g; 100 g	1 kg; 2 kg		650×500 mm	22 kg

ENGLISH

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)

Model	Description
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)
963-129	DAkkS calibration certificate 963-129
965-229	Verification / Conformity assessment according to NAWI (2014/31/EU) 965-229
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
	Alibi memory: Secure, electronic archiving of measuring results, complying with the 2014/31/EU standard
	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

ENGLISH

Conformity assessment: The duration of the conformity assessment is 3 working days