PROFESSIONAL MEASURING
SINCE 1844

KERN

Product brochure

31.10.2026

# KERN IXC 100K-2LM-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

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## CONTACT

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## 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, 650×500×139 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
- 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 |

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## 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 |
| 970-108 | Warranty extension (+2 years) 970-108 |

# 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 |

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