PROFESSIONAL MEASURING
SINCE 1844

KERN

Product brochure

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KERN IFC 300K50DM

Robust industrial scales with up to three interfaces, with optional verification

ENGLISH



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FEATURES

- 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
- Industry 4.0: Data and control commands can be exchanged through the KERN Universal Port KUP) using one interface, which can be connected to the housing, or through three parallel interfaces using the KUP Extension box. The following interfaces are available as an option: RS-232, USB, Ethernet, 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
- With Real Time Clock as standard: Enables you to log the weighing results with accurate time information. Even if the power supply is interrupted, the balance can continue to work with the correct time
- 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
- Data query and remote control of the balance using a computer or CRM/ERP systems using the KERN Communication Protocol
- Simplified battery replacement through easily-accessible housing. Particularly advantageous for models with optional verification, as the verification seal remains intact
- Platform: weighing plate of stainless steel, painted steel base, silicone-coated aluminium load cell with protection against dust and water splashes IP65
- Benchtop stand incl. wall mount for display device as standard
- Protective working cover included with delivery

TECHNICAL DATA

- Large backlit LCD display, digit height 48 mm
- Weighing platform dimensions, stainless steel, W×D×H 650×500×139 mm
- Dimensions of display device W×D×H 220×150×66,5 mm
- Cable length of display device approx. 3 m
- Net weight approx. 18 kg
- Permissible ambient temperature -10 °C/40 °C

MAIN SCOPE OF APPLICATIONS

- Food industry
- Pharmaceutical applications
- Production and manufacturing
- Warehouse logistics

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
- Simultaneous connection of up to three optional interfaces is only possible with the Extension Box KUP-A13. Without the box, only one optional interface can be used at a time.
- It is essential that a verified balance which transfers measurements to external devices using an interface, has an alibi memory YMM-04. 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.
IFC 15K2DLM	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	7 kg
IFC 15K2DM	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	5,0 kg
IFC 10K-4	15 kg	0,0005 kg			300×240 mm	6 kg
IFC 10K-4L	15 kg	0,0005 kg			400×300 mm	8 kg
IFC 30K5DM	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
IFC 30K-3	30 kg	0,001 kg			400×300 mm	8 kg
IFC 60K10DLM	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	10 kg
IFC 60K10DM	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	7 kg
IFC 60K-3	60 kg	0,002 kg			400×300 mm	7 kg
IFC 60K-3L	60 kg	0,002 kg			500×400 mm	10 kg
IFC 150K20DLM	60 kg; 150 kg	0,02 kg; 0,05 kg	0,02 kg; 0,05 kg	0,4 kg; 1 kg	650×500 mm	18 kg
IFC 150K20DM	60 kg; 150 kg	0,02 kg; 0,05 kg	0,02 kg; 0,05 kg	0,4 kg; 1 kg	500×400 mm	10 kg

Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Dimensions weighing surface	Net weight approx.
IFC 150K-3	150 kg	0,005 kg			500×400 mm	11 kg
IFC 150K-3L	150 kg	0,005 kg			650×500 mm	18 kg
IFC 300K50DM	150 kg; 300 kg	0,05 kg; 0,1 kg	0,05 kg; 0,1 kg	1 kg; 2 kg	650×500 mm	18 kg
IFC 300K-2	300 kg	0,01 kg			650×500 mm	18 kg
IFC 600K100DM	300 kg; 600 kg	0,1 kg; 0,2 kg	0,1 kg; 0,2 kg	2 kg; 4 kg	800×600 mm	40 kg
IFC 600K-2	600 kg	0,02 kg			800×600 mm	40 kg
IFC 3K-4	3000 g	0,1 g			230×230 mm	4,6 kg
IFC 6K1DM	3000 g; 6000 g	1 g; 2 g	1 g; 2 g	20 g; 40 g	300×240 mm	6 kg
IFC 6K1DSM	3000 g; 6000 g	1 g; 2 g	1 g; 2 g	20 g; 40 g	230×230 mm	4,8 kg
IFC 6K-4	6000 g	0,2 g			300×240 mm	6 kg
IFC 6K-4S	6000 g	0,2 g			230×230 mm	4,6 kg

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ACCESSORIES

Model	Description
BFS-A07	Tripod BFS-A07, Height of stand approx. 1040 mm
CFS-A03	Signal lamp KERN CFS-A03
IFB-A01	Stand IFB-A01, Height of stand approx. 330 mm
IFB-A02	Tripod IFB-A02, Height of stand approx. 600 mm
KUP-01	RS-232 interface KUP-01
KUP-03	Interface USB-Device KUP-03
KUP-04	Ethernet interface KUP-04
KUP-05	WiFi interface KUP-05
KUP-06	Bluetooth BLE interface KUP-06
KUP-08	Analogue module interface adapter KUP-08
KUP-13	Extension box KUP-13
YBA-A18	Protective working cover YBA-A18
YBA-A18S05	Protective working cover YBA-A18S05, scope of delivery: 5 items
YGR-01	ESD grounding plug incl. grounding cable YGR-01
YKA-27	Power adapter YKA-27 (5,9V, 1A | 100 V - 240 V, 50 / 60 Hz | EURO, UK, US, CH)

Model	Description
YKC-01	Thermal printer YKC-01
YKR-01	Rechargeable battery pack YKR-01
YKT-01	Needle printer YKT-01
YMM-04	Alibi memory option YMM-04
YRO-03	roller conveyor YRO-03

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)
SET-01	Software KERN EasyTouch SET-01-2025a Base
SET-01	Software KERN EasyTouch SET-01 Base
SET-04	Software KERN EasyTouch SET-04-2025a Density
SET-04	Software KERN EasyTouch SET-04 Density
SET-05	Software KERN EasyTouch SET-05-2025a Dynamic
SET-05	Software KERN EasyTouch SET-05 Dynamic
SET-06	Software KERN EasyTouch SET-06-2025a Classification
SET-06	Software KERN EasyTouch SET-06 Classification
SET-07	Software KERN EasyTouch SET-07-2025a Variable
SET-07	Software KERN EasyTouch SET-07 Variable
SET-08	Software KERN EasyTouch SET-08-2025a Take-out
SET-08	Software KERN EasyTouch SET-08 Take-out
SET-10	Software KERN EasyTouch SET-10 Save Server
SET-11	Software KERN EasyTouch SET-11-2025a Safety
SET-11	Software KERN EasyTouch SET-11 Safety
SET-14	Software KERN EasyTouch SET-14-2025a Individual Print
SET-14	Software KERN EasyTouch SET-14 Individual Print
SET-16	Software KERN EasyTouch SET-16-2025a Batch and Statistics
SET-16	Software KERN EasyTouch SET-16 Batch and Statistics

Model	Description
SET-17	Software KERN EasyTouch SET-17-2025a PrePack
SET-17	Software KERN EasyTouch SET-17 PrePack
SET-18	Software KERN EasyTouch SET-18-2025a Container Master
SET-18	Software KERN EasyTouch SET-18 Container Master
SET-21	Software KERN EasyTouch SET-21-2025a Formulation
SET-21	Software KERN EasyTouch SET-21 Formulation
SET-22	Software KERN EasyTouch SET-22-2025a Difference
SET-22	Software KERN EasyTouch SET-22 Difference
SET-31	Software KERN EasyTouch SET-31-2025a Tolerance
SET-31	Software KERN EasyTouch SET-31 Tolerance
SET-32	Software KERN EasyTouch SET-32-2025a Count
SET-32	Software KERN EasyTouch SET-32 Count
SET-33	Software KERN EasyTouch SET-33-2025a Target Count
SET-33	Software KERN EasyTouch SET-33 Target Count
SET-35	Software KERN EasyTouch SET-35-2025a Assembly Count
SET-35	Software KERN EasyTouch SET-35 Assembly Count
SET-37	Software KERN EasyTouch SET-37-2025a Export Manager
SET-37	Software KERN EasyTouch SET-37 Export Manager
SET-39	Software KERN EasyTouch SET-39 Data Interface
SET-40	Software KERN EasyTouch SET-40 Protect
SET-46	Software KERN EasyTouch SET-46-2025a Backup Scheduler
SET-46	Software KERN EasyTouch SET-46 Backup Scheduler
SET-51	Software KERN EasyTouch SET-51-2025a Audit Logs
SET-51	Software KERN EasyTouch SET-51 Audit Logs
SET-52	Software KERN EasyTouch SET-52-2025a Inventory
SET-52	Software KERN EasyTouch SET-52 Inventory
SET-261	Software KERN EasyTouch SET-261 Audio Management
SET-311	Software KERN EasyTouch SET-311-2025a Quick Key
SET-311	Software KERN EasyTouch SET-311 Quick Key
SET-411	Software KERN EasyTouch SET-411-2025a Hotkeys
SET-411	Software KERN EasyTouch SET-411 Hotkeys

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
965-403	Cable extension 965-403 (< 4 m)
965-404	Cable extension 965-404 (4–7 m)
965-405	Cable extension 965-405 (7–20 m)
969-517	Confirmation of the manufacturer's specification (only in combination with DAkkS calibration certificate)969-517
970-104	Warranty extension (+2 years) 970-104

KERN Pictogram Overview

	External adjustment: Adjusting accuracy using external adjustment weight
	KERN IoT-Line balances – smart weighing solutions for the digital future
	KERN Universal Port (KUP): allows the connection of external KUP interface adapters, e.g. RS-232, RS-485, USB, Bluetooth, WiFi, Analogue, Ethernet etc. for the exchange of data and control commands, without installation effort
	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
	GLP/ISO protocol: The measuring device generates a GLP-compliant printout
	Value & time: The measuring device displays the value, date, and time, regardless of the connected printer
	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
	Load Cell: 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
	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
	Data interface Bluetooth: For connection to printers, PCs or other peripheral devices
	Data interface WiFi: For data transfer to printers, PCs or other peripheral devices
	Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements
	Network interface: For connecting the measuring device to an Ethernet network
	Rechargeable battery pack: Rechargeable set

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