PROFESSIONAL MEASURING
SINCE 1844

KERN

Product brochure

10.10.2026

KERN FKS 6K-4

Networkable IP65 stainless steel bench scale with LED display and classification function

ENGLISH

CONTACT

KERN & SOHN GmbH
Ziegelei 1
72336 Balingen
Germany

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

ENGLISH

FEATURES

- IP65 dust and spray protection (in accordance with EN 60529)
- Stainless steel platform with an edgeless and jointless design; hygienic and easy to clean
- Coloured LED indicators below the display for visualising tolerance limits and class assignments with up to 10 different colours – supports checkweighing, piece counting and classification
- Weighing with tolerance range (checkweighing): a visual signal helps with portioning, dispensing or grading
- Classification function for quick allocation of weighed goods according to weight classes
- 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 two interfaces to suit individual requirements: one wired connection (RS-232, Ethernet, USB or analogue module) and one wireless connection (WiFi, Bluetooth)
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- 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
- 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
- Very low installation height (60 mm), ideal for heavy loads, confined workspaces and weighed items of great height
- Platform and display device can be separated; display device can be attached for mobile use
- Robust external mains adapter with IP65 protection as standard
- Thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- Universal external mains adapter included in scope of supply, with IP65 protection thanks to rugged magnetic connection on the scale – ideal for moist or dusty operational environments

TECHNICAL DATA

- 14 segment LCD display: easy-to-read alphanumeric display of weight units, status messages, etc.
- Dimensions weighing surface, stainless steel, W×D 228×228 mm
- Overall dimensions W×D×H 325×230×60 mm
- Net weight approx. 3,6 kg
- Permissible ambient temperature -10 °C/40 °C

MAIN SCOPE OF APPLICATIONS

- Food industry
- Chemical industry
- Gastronomy
- Laboratories

PICTOGRAMS

Standard

Option

Factory

ENGLISH

MODEL OVERVIEW

Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Dimensions weighing surface
FKS 15K-4	15 kg	0,001 kg	0,001 kg	± 0,003 kg	228×228 mm
FKS 30K-3	30 kg	0,002 kg	0,002 kg	± 0,006 kg	228×228 mm
FKS 1K-5	1500 g	0,1 g	0,1 g	± 0,3 g	228×228 mm
FKS 3K-4	3000 g	0,2 g	0,2 g	± 0,6 g	228×228 mm
FKS 6K-4	6000 g	0,5 g	0,5 g	± 1,5 g	228×228 mm

ACCESSORIES

Model	Description
KUM-01	RS-232 interface KUM-01
KUM-03	Interface USB-Device KUM-03
KUM-04	Ethernet interface KUM-04
KUM-05	WiFi interface KUM-05
KUM-06	Bluetooth BLE interface KUM-06
KUM-08	Analogue interface KUM-08
YKC-01	Thermal printer YKC-01
YKG-01	Dot Matrix Printer YKG-01
YKH-01	Thermal printer YKH-01

Model	Description
YKR-08	Rechargeable battery pack YKR-08 (Li-Ion, 3,7 V, 10.000 mAh)
YKT-01	Needle printer YKT-01

SOFTWARE

Model	Description
SCD-4.0-DL	Software SCD-4.0-DL (Scope of supplies: Download link for 1 license)
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
961-248	Adjustment at the location of installation 961-248 (Not in combination with verification)
963-128	DAkkS calibration certificate 963-128
969-517	Confirmation of the manufacturer's specification (only in combination with DAkkS calibration certificate)969-517
970-017	Warranty extension (+3 years) 970-017

KERN Pictogram Overview

	External adjustment: Adjusting accuracy using external adjustment weight
	Alibi memory: Secure, electronic archiving of measuring results, complying with the 2014/31/EU standard
	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 %)
	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
	Classification: Quick and easy categorisation of items to be weighed using colour-coding to indicate defined weight classes
	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
	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
	Network interface: For connecting the measuring device to an Ethernet network

ENGLISH

Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements