PROFESSIONAL MEASURING
SINCE 1844

KERN

Product brochure

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KERN FES 33K-4

High-capacity precision balance with password-protected user administration

ENGLISH



CONTACT

KERN & SOHN GmbH
Ziegelei 1
72336 Balingen
Germany

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







APPLICATION EXAMPLE







FEATURES

- Stainless steel display device with IP65 protection, hygienic and easy to clean
- Metal housing: robust and sturdy
- In order to meet requirements in the pharmaceutical industry, the balance is fitted with a user administration system, which enables unique assignment of users and protects against unauthorised access
- Freely-assignable function keys enable individual adjustment of the balance
- IP65 dust and spray protection (in accordance with EN 60529)
- CAL adjustment program for adjusting precision, external test weights available separately
- U.S. FDA 21 Part 11: assists in data integrity in accordance with U.S. FDA 21 Part 11 (for example weighing result, sample ID, user name, scales ID, ...)
- Protective working cover included with delivery

TECHNICAL DATA

- Large backlit LCD display, digit height 16,5 mm
- Dimensions weighing surface, stainless steel, W×D 350×400 mm
- Dimensions of display device W×D×H 290×180×80 mm
- Overall dimensions 350×520×170 mm
- Net weight approx. 18 kg
- Permissible ambient temperature 5 °C/35 °C

MAIN SCOPE OF APPLICATIONS

- Pharmaceutical applications
- Food industry
- Industry and production
- Quality management
- Time-based recording

PICTOGRAMS

Standard



Option



Factory



MODEL OVERVIEW

Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Dimensions weighing surface
FES 62K-4D	6200 g; 62000 g	0,1 g; 1 g	0,1 g; 1 g	± 0,3 g; 3 g	350×400 mm
FES 17K-4	17000 g	0,1 g	0,1 g	± 0,3 g	350×400 mm
FES 33K-4	33000 g	0,1 g	0,1 g	± 0,3 g	350×400 mm

ACCESSORIES

Model	Description
FEJ-A01	Rechargeable battery pack FEJ-A01 (NiMH)
FEJ-A02	Protective working cover FEJ-A02
FEJ-A02S05	Protective working cover FEJ-A02S05, scope of delivery: 5 items
FEJ-A05	Tripod FEJ-A05, Height of stand approx. 700 mm
FEJ-A06	Hook for underfloor weighing FEJ-A06
FEJ-A07	Relay output FEJ-A07
MLB-A05	RS232 interface cable MLB-A05
PWS-A02	RS232 interface cable PWS-A02
YKC-01	Thermal printer YKC-01
YKG-01	Dot Matrix Printer YKG-01

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Model	Description
YKH-01	Thermal printer YKH-01
YKI-10	RS232-Ethernet adapter YKI-10 (RS-232 standard, Ethernet, RS-485)
YKI-11	RS232-Ethernet adapter YKI-11 (Ethernet, RS-232 standard - 2x)
YKI-12	RS232-WiFi adapter YKI-12
YKT-01	Needle printer YKT-01

SOFTWARE

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
963-128	DAkkS calibration certificate 963-128
969-517	Confirmation of the manufacturer’s specification (only in combination with DAkkS calibration certificate)969-517
970-112	Warranty extension (+2 years) 970-112

KERN Pictogram Overview

	External adjustment: Adjusting accuracy using external adjustment weight
	Data interface RS-232: For connection to printers, PCs or other peripheral devices for data transfer over longer distances. Network in bus topology possible
	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
	Net total: The weight values of the recipe ingredients can be added up and the total weight of the recipe printed out
	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
	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 tuning fork: A resonating body is electromagnetically excited, causing it to oscillate
	Package shipment by courier service: The duration of internal product provision is one day
	Suspended weighing: Load support with hook on the underside of the balance
	Accredited calibration (DKD): The duration of the accredited calibration is 3 working days
	Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.
	Rechargeable battery pack: Rechargeable set

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