PROFESSIONAL MEASURING
SINCE 1844

KERN

Product brochure

30.10.2026

SAUTER FC 50

Compact force gauge for tensile and compressive force measurements

ENGLISH



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FEATURES

- Turnable display with backlight
- Peak-Hold function to capture the peak value or Track function for continuous display of measurement
- Metal housing for durable use in harsh environmental conditions
- Capacity display: A bar lights up to show how much of the measuring range is still available
- Measuring with tolerance range (limit-setting function): Upper and lower limit adjustable, between 10 and 100 % of [Max], in pull and push direction. The process is supported by an acoustic and visual signal
- Safety: If loads exceed 110 % of the measuring range, the device will give clear acoustic and visual signals
- Internal memory for up to 500 measurement values
- USB data interface and USB interface cable as standard
- Selectable: AUTO-OFF function or permanent operation
- Selectable measuring units: N, kgf, ozf, lbf
- Delivered in a robust carrying case
- Standard attachments as shown, extension rod: 90 mm, included with the delivery
- Can be mounted on all SAUTER test stands up to 5 kN

TECHNICAL DATA

- Measuring precision: 0,3% of [Max]
- Transmission rate to PC: up to 200 measured values/second
- Overload protection: 150% of [Max]
- Overall dimensions W×D×H 140×70×34 mm
- External thread M6
- Rechargeable battery pack integrated, as standard, operating time up to 20 h without backlight, charging time approx. 4 h
- Net weight approx. 0,95 kg

MAIN SCOPE OF APPLICATIONS

- Test laboratories
- Research and development
- Automotive industry
- Maintenance and servicing
- Plastics technology

PICTOGRAMS

Standard



Option



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MODEL OVERVIEW

Model	Measuring range [Max]	Readability [d]
FC 1K	1 kN	1 N
FC 10	10 N	0,01 N
FC 50	50 N	0,01 N
FC 100	100 N	0,1 N
FC 500	500 N	0,1 N

ACCESSORIES

Model	Description
AC 01	Screw tension clamp with jaws AC 01 (up to 500 N | width 20 mm, | clamping width 20 mm | 2 piece)
AC 01R	Screw tension clamp with jaws AC 01R (up to 500 N | width 20 mm, | clamping width 20 mm | 1 piece)
AC 02	Ball-shaped head SAUTER AC 02 (Ball radius: 5 mm / 8 mm | 2 pieces)
AC 02R	Accessory force measurement AC 02R
AC 03	Screw tension clamp with jaws AC 03 (up to 5 kN | width 50 mm, | clamping width 4,5 mm | 2 piece)
AC 03R	Screw tension clamp with jaws AC 03R (up to 5 kN | width 50 mm, | clamping width 4,5 mm | 1 piece)
AC 09	Screw tension clamp with jaws AC 09 (up to 500 N | width 6 mm, | clamping width 8 mm | 2 piece)
AC 09R	Screw tension clamp with jaws AC 09R (up to 500 N | width 6 mm, | clamping width 8 mm | 1 piece)
AC 11R	Roller Tension Clamp AC 11R (up to 5 kN | width 50 mm, | clamping width 4 mm | 1 piece)
AC 12	Screw tension clamp with jaws AC 12 (up to 5 kN | width 25 mm, | clamping width 5 mm | 2 piece)

Model	Description
AC 12R	Screw tension clamp with jaws AC 12R (up to 5 kN | width 25 mm, | clamping width 5 mm | 1 piece)
AC 14	Screw tension clamp with jaws AC 14 (up to 500 N | width 16 mm, | clamping width 4 mm | 2 piece)
AC 14R	Screw tension clamp with jaws AC 14R (up to 500 N | width 16 mm, | clamping width 4 mm | 1 piece)
AC 16R	Screw tension clamp with jaws AC 16R (up to 5 kN | width 20 mm, | clamping width 5 mm | 1 piece)
AC 17	Screw tension clamp with jaws AC 17 (up to 500 N | width 8 mm, | clamping width 2,5 mm | 2 piece)
AC 17R	Screw tension clamp with jaws AC 17R (up to 500 N | width 8 mm, | clamping width 2,5 mm | 1 piece)
AC 22	Screw tension clamp with jaws AC 22 (up to 500 N | width 30 mm, | clamping width 3 mm | 2 piece)
AC 22R	Screw tension clamp with jaws AC 22R (up to 500 N | width 30 mm, | clamping width 3 mm | 1 piece)
AC 43	Standard attachments AC 43
AC 45	Concave force sensor AC 45 (to 1 kN | Threaded hole M6)
AC 46	Flat square-shaped sensor AC 46 (to 1 kN | Threaded hole M6)
AC 47	Round sensor AC 47 (to 1 kN | Threaded hole M6)
AD 9001	Screw tension clamp with jaws AD 9001 (up to 100 N | width 15 mm, | clamping width 8 mm | 1 piece)
AD 9005	Screw tension clamp with jaws AD 9005 (up to 400 N | width 25 mm, | clamping width 8 mm | 1 piece)
AD 9016	Screw tension clamp with jaws AD 9016 (up to 1 kN | width 30 mm, | clamping width 10 mm | 1 piece)
AE 01	Standard Clamp AE 01
AE 02	Standard Clamp AE 02
AE 03	Strip tension clamp AE 03 (up to 500 N | width 40 mm, | clamping width 2,5 mm | 1)
AE 04	Strip tension clamp AE 04 (up to 500 N | width 15 mm, | clamping width 6 mm | 1)
AE 05	Rope and thread tension clamp AE 05 (up to 500 N | width , | clamping width 2,5 mm | 1)
AE 06	Cable pull-off clamp AE 06
AE 07	Wedge Clamp with jaws AE 07 (up to 500 N | width 14 mm, | clamping width 6 mm | 1)
AE 08	Pressure plate AE 08 (Ø 47 mm | to 5 kN)
AE 08R	Accessory force measurement AE 08R
AE 500	Screw tension clamp with jaws AE 500
AFK 02	Stainless steel handle with plastic coating AFK 02
AFM 05	Adapter AFM 05 (External thread M10 | Threaded hole M6)
AFM 06	Adapter AFM 06 (Threaded hole M10 | Threaded hole M6)
AFM 07	Adapter AFM 07 (External thread M10 | Threaded hole M6)

Model	Description
AFM 12	Adapter AFM 12 (Threaded hole M6 | Threaded hole M6)
AFM 15	Adapter AFM 15 (Threaded hole M12 | Threaded hole M6)
FC-A01	Connection cable FC-A01
YKA-01	Schuko> UK Plug Power Adapters YKA-01
YKA-02	Travel adapter YKA-02

SOFTWARE

Model	Description
AFH FAST	Data transfer software for force-time-measurements, AFH FAST
AFH LD	Data transfer software for force-displacement-measurements AFH LD

SERVICES

Model	Description
961-161	Factory calibration certificate 961-161 (tension | N)
961-261	Factory calibration certificate 961-261 (compression | N)
961-361	Factory calibration certificate 961-361 (tension, compression | N)
963-161	DAkkS calibration certificate 963-161 (force direction tension | measurement result unit N | calibration standard DKD-R 3-3 - sequence A)
963-261	DAkkS calibration certificate 963-261 (force direction compression | measurement result unit N | calibration standard DKD-R 3-3 - sequence A)
963-361	DAkkS calibration certificate 963-361 (force direction tension, compression | measurement result unit N | calibration standard DKD-R 3-3 - sequence A)
970-017	Warranty extension (+3 years) 970-017

KERN Pictogram Overview

	Peak hold function: capturing a peak value within a measuring process
	Push and Pull: the measuring device can capture tension and compression forces
	Memory: Device-internal memory capacity, e.g. for article data, measuring data, tare weights, PLU etc.
	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
	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
	ZERO: Reset the display to 0
	Rechargeable battery pack: Rechargeable set
	Plug-in power supply: 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available
	Package shipment by courier service: The duration of internal product provision is one day
	PC Software: to transfer the measurements from the device to a PC
	Factory calibration (ISO): Factory calibration takes 4 working days
	Accredited calibration (DKD): The duration of the accredited calibration is 3 working days

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