

Product brochure

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SAUTER FM 5

Universal digital force gauge with graphic-assisted display and integrated load cell

ENGLISH



CONTACT

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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
- Can be mounted on all SAUTER test stands up to 5 kN
- 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, in pull and push direction. The process is supported by a visual signal
- Internal memory for up to 500 measurement values
- USB-C and PS/2 data interfaces for flexible data transfer and device coupling
- Selectable measuring units: N, kN, kgf, lbf
- Standard attachments: as shown
- Delivered in a robust carrying case

TECHNICAL DATA

- Transfer rate to PC: approx. 25 measured values per second
- Measuring precision: 0,2% of [Max]
- Overload protection: 120% of [Max]
- Overall dimensions W×D×H 71×31×180 mm
- External thread M6
- Rechargeable battery pack integrated, as standard, operating time up to 10 h without backlight, charging time approx. 8 h
- External mains adapter, for connection to the USB-C connector, standard
- Net weight approx. 0,35 kg

MAIN SCOPE OF APPLICATIONS

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

PICTOGRAMS

Standard



Option



MODEL OVERVIEW

Model	Measuring range [Max]	Readability [d]
FM 1K	1 kN	0,5 N
FM 5	5 N	0,002 N
FM 10	10 N	0,005 N
FM 20	20 N	0,01 N
FM 50	50 N	0,02 N
FM 100	100 N	0,05 N
FM 200	200 N	0,1 N
FM 500	500 N	0,2 N

ACCESSORIES

Model	Description
AC 02	Ball-shaped head SAUTER AC 02 (Ball radius: 5 mm / 8 mm 2 pieces)
AC 02R	Accessory force measurement AC 02R
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 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)

Model	Description
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
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 100 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 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)
AFM 12	Adapter AFM 12 (Threaded hole M6 Threaded hole M6)
AFM 15	Adapter AFM 15 (Threaded hole M12 Threaded hole M6)
FL-A03	Rechargeable battery pack FL-A03
FL-A04	Cable FL-A04
FS-E07	Power supply unit EURO FS-E07
RFL-3001	LCD Display RFL-3001
RFL-4001	Display overlay RFL-4001
YKT-01	Needle printer YKT-01

SOFTWARE









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

Model	Description
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)
970-101	Warranty extension (+2 years) 970-101

KERN Pictogram Overview

-  Peak hold function: capturing a peak value within a measuring process
-  Memory: Device-internal memory capacity, e.g. for article data, measuring data, tare weights, PLU etc.
-  Data Interface USB: For connection to printers, PCs or other peripheral devices
-  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
-  Accredited calibration (DKD): The duration of the accredited calibration is 3 working days
-  Factory calibration (ISO): Factory calibration takes 4 working days