BALANCES & TEST SERVICE 2024

FORCE MEASUREMENT



Digital Force Gauge SAUTER FH-M











Universal digital force gauge for tensile and compressive force measurements with external load cell

Features

- · Turnable display with backlight
- NEW: USB interface for data transfer and power supply as standard
- Data interface RS-232 as standard
- Selectable measuring units: N, kN, kgf, tf
- Peak-Hold function to capture the peak value or Track function for continuous display of measurement
- Measuring with tolerance range (limit-setting function): Upper and lower limit adjustable, in pull and push direction. The process is supported by an audible and visual signal
- Auto-Power-Off
- · Internal memory for up to 10 measurement values
- Mini Statistics Kit: calculates the average result from up to 10 stored measured values, as well as min., max., n
- Tension loops and compression plates are included in delivery
- 2 Delivered in a robust carrying case

Technical data

- Transfer rate to PC: approx. 25 measured values per second
- Measuring precision: 0,5% of [Max]
- Overload protection: 150% of [Max]
- Overall dimensions W×D×H 240×70×40 mm
- Rechargeable battery pack integrated, as standard, operating time up to 40 h without backlight, charging time approx. 120 min
- External mains adapter, for connection to the USB-C connector, standard
- Cable length approx. 3 m
- Net weight approx. 1,6 kg

Accessories

- Data transfer software with graphic display of the measurement process, force-time, SAUTER AFH FAST
- RS 232 connection cable to connect models from the SAUTER FH range to an electric SAUTER test bench, SAUTER FH-A04

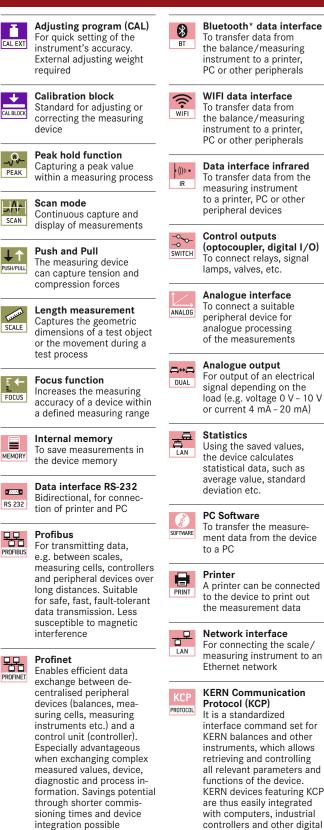


Model	Measuring range [Max]	Readability [d]	Option DAkkS Calibration Certificate ($\leq 5 \text{ kN}$)/Factory calibration certificate (> 5 kN)		
			Tensile Force	Compressive Force	Tensile/Compressive Force
SAUTER	N	N	KERN	KERN	KERN
FH 1K	1000	0,5	963-162	963-262	963-362
FH 2K	2000	1	963-162	963-262	963-362
FH 5K	5000	1	963-163	963-263	963-363
FH 10K	10000	5	961-164	961-264	961-364
FH 20K	20000	10	961-164	961-264	961-364
FH 50K	50000	10	961-165	961-265	961-365
FH 100K	100000	50	961-166	961-266	961-366

Further calibration options on request

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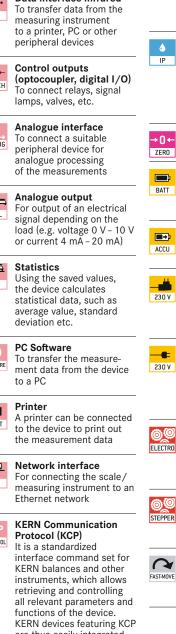
SAUTER PICTOGRAMS

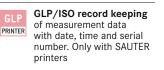




Data interface USB To connect the measuring instrument to a printer, PC

or other peripheral devices





systems

Measuring units C Weighing units can be switched to e.g. non-metric. UNIT Please refer to website for more details Measuring with ور ک tolerance range TOL (limit-setting function) Upper and lower limiting can be programmed individually. The process is supported by an audible or visual signal, see the relevant model Protection against dust ۵ and water splashes IPxx IP The type of protection is shown in the pictogram cf. DIN EN 60529:2000-09, IEC 60529:1989 +A1:1999+A2:2013 ZERO +0+ Resets the display to "0" ZERO Battery operation Ready for battery opera-BATT tion. The battery type is specified for each device Rechargeable l ⇒ b battery pack ACCU Rechargeable set Plug-in power supply 230V/50Hz in standard 230 V version for EU. On request GB, AUS or US version available Integrated power -C= supply unit 230 V Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or US on request Motorised drive 00 The mechanical movement ELECTRO

is carried out by a electric motor



Motorised drive

The mechanical movement is carried out by a synchronous motor (stepper)



The total length of travel can be covered by a single

lever movement



1 DAY

2 DAYS

Conformity assessment Models with type approval for construction of verifiable systems

DAkkS calibration DAkkS possible +3 DAYS

The time required for DAkkS calibration is shown in days in the pictogram

Factory calibration (ISO) ISO +4 DAYS

The time required for factory calibration is specified in the pictogram

Package shipment

The time required for internal shipping preparations is shown in days in the pictogram

Pallet shipment Ē

The time required for internal shipping preparations is shown in days in the pictogram

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