SAUTER CATALOGUE 2019

Digital force gauge SAUTER FL-S



PREMIUM



Premium force measuring instrument with graphic-assisted display and integrated measuring cell

Features

STANDARD

PEAK

- · Turnable display with backlight
- **Peak-Hold function** to capture peaks (measurement result will be "frozen" for a short time) or **Track function** mode for a continuous measurement indication (period of time approx. 10 s)
- **Metal housing** for durable usage in harsh environmental conditions
- Can be mounted on all SAUTER test stands
- **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 limiting can be programmed individually, in pull and push direction. The process is supported by an visual signal.
- Internal memory for up to 500 measurement values
- Continuous analogue output: Linear voltage signal in dependence to the load (-2 to +2 V)

• 6666 •

RS 232

ANALOG

PRINTER

USB

- II Standard attachments: as shown above
- Selectable measuring units: N, kN, kg, oz, lbf
- 2 Delivered in a robust carrying case

Technical data

- Internal measuring frequency: 1000 Hz
- Precision: 0,2 % of [Max]
- Overload protection: 120 % of [Max]
- Dimensions W×D×H 175×75×30 mm
- Thread: M6
- Rechargeable battery pack integrated, standard, operating time up to 10 h without backlight, charging time approx. 8 h
- Net weight approx. 0,5 kg

ACCU

230 V

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TOL

Accessories

- Plug-In for data transfer of measuring data from the measuring instrument and transfer to a PC, e.g. in Microsoft Excel[®], SAUTER AFI-1.0
- Force-displacement data transfer software with graphical representation of the measuring process, only in combination with SAUTER LD, SAUTER AFH LD
- Force-time data transfer software for graphical representation on the PC and data transfer to Microsoft Excel[®], SAUTER AFH FAST
- Force-displacement data transfer software with graphic display of the measurement process, only in combination with SAUTER LB, SAUTER AFH FD
- USB cable, SAUTER FL-A01
- RS-232 adapter cable, SAUTER FL-A04
- Thermal printer, KERN YKB-01N
- Statistics thermal printer, KERN YKS-01
- Label printer, KERN YKE-01
- Supports for fastening of objects as well as additional accessories, please see page 30 onwards or our website

Model	Measuring range	Readout	Option DAkkS calibration certificate					
			Tensile force		Compressive force		Tensile/Compressive force	
	[Max]	[d]	DAkkS		DAkkS		DAkkS	
SAUTER	N	N	KERN		KERN		KERN	
FL 5	5	0,002	-		-		-	
FL 10	10	0,005	963-161		963-261		963-361	
FL 20	25	0,01	963-161		963-261		963-361	
FL 50	50	0,02	963-161		963-261		963-361	
FL 100	100	0,05	963-161		963-261		963-361	
FL 200	250	0,1	963-161		963-261		963-361	
FL 500	500	0,2	963-161		963-261		963-361	
FL 1K	1000	0,5	963-162		963-262		963-362	

PTION

DAkks

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Pictograms



Adjusting program (CAL): For quick setting of the instrument's accuracy. External adjusting weight required.



Calibration block:

standard for adjusting or correcting the measuring device.



Peak hold function: capturing a peak value within a measuring process.



Scan mode: continuous capture and display of measurements



Push and Pull:

the measuring device can capture tension and compression forces.



Length measurement:

captures the geometric dimensions of a test object or the movement during a test process.



Focus function:

increases the measuring accuracy of a device within a defined measuring range.



Internal memory:

to save measurements in the device memory.



Data interface RS-232: bidirectional, for connection of printer



and PC.



Data interface USB:

To connect the measuring instrument to a printer, PC or other peripheral devices.

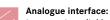


Data interface Infrared:

To transfer data from the measuring instrument to a printer, PC or other peripheral devices.



Control outputs (optocoupler, digital I/O): to connect relays, signal lamps, valves, etc.



to connect a suitable peripheral device for ANALOG analogue processing of the measurements



Statistics: using the saved values, the device calculates TATISTIC statistical data, such as average value, standard deviation etc.



PC Software: to transfer the measurement data from the device to a PC.



Printer:

a printer can be connected to the device to print out the measurement data.

GLP/ISO record keeping: GLP of measurement data with date, time and





Measuring units: Weighing units can be switched to e.g. non-metric at the touch of a key. Please refer to website for more details.

serial number. Only with SAUTER printers

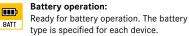


Measuring with tolerance range (limit-setting function): Upper and lower limiting can be programmed

individually. The process is supported by an audible or visual signal, see the relevant model

ZERO: +0+ ZERO

Resets the display to "0".



Rechargeable battery pack:

rechargeable set.

Mains adapter:



ACCU

- E
230 V

Power supply: Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or USA on request.

230V/50Hz in standard version for EU. On

request GB, AUS or USA version available.



Motorised drive:

The mechanical movement is carried out by a electric motor.



Motorised drive:

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



Fast-Move:

the total length of travel can be covered by a single lever movement.



DAkkS calibration possible:

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



Factory calibration:

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:

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

Your KERN specialist dealer:



