

Digital force gauge SAUTER FL-S







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

Features

- · 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)

- 🔳 Standard attachments: as shown above
- · Selectable measuring units: N, kN, kg, oz, lbf
- 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

Accessories

- · Plug-In for data transfer of measuring data from the measuring instrument and transfer to a PC, e.g. in Microsoft $\mathsf{Excel}^{\$}$, 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

STANDARD	
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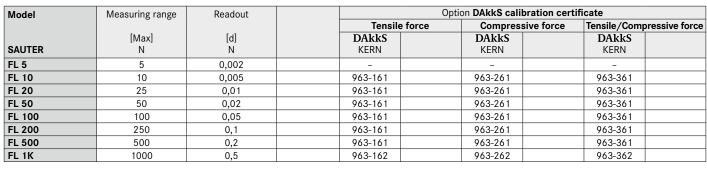














Pictograms



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.



Analogue interface:

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



Statistics

using the saved values, the device calculates 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:

of measurement data with date, time and serial number. Only with SAUTER printers



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.



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

ZERO:

Resets the display to "0".



Battery operation:

Ready for battery operation. The battery type is specified for each device.



Rechargeable battery pack:

rechargeable set.



Mains adapter:

230V/50Hz in standard version for EU. On request GB, AUS or USA version available.



Power supply:

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



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:

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