



Premium force measuring instrument with graphic-assisted display

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
- **Function to set limits**, programming of Max./Min., in pull and push direction, with output of acoustic and optical signal. Ideal mode for efficient and accurate testing of standard parts
- **Internal memory** for up to 500 measurements

- **Continuous analogue output:** Linear voltage signal in relation to the load (-2 to +2V)
- **1** Delivered in a hard carrying case
- **2** SAUTER FL 2K: with external sensor, Tension loops and pressure plates are included in delivery
- **3** Standard attachments: as shown besides (not for FL 2K)
- Selectable measuring units: N, KN, kg, oz, lbf

Technical data

- Internal measuring frequency
- Precision: 0,2 % of [Max]
- Overload protection: 120 % of [Max]
- Dimensions WxDxH 175x75x30 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

- **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, SAUTER AFH FD
- USB cable, SAUTER FL-A01
- **RS-232 adapter cable**, SAUTER FL-A04
- Further accessory see www.sauter.eu and page 26 et seqq.































STANDARD



OPTION



Model	Measuring range [Max] N	Readout [d] N	Option ISO Calibration Certificate								
			Tension		Compression		Tension/Compression				
			ISO KERN		ISO KERN		ISO KERN				
SAUTER											
FL 5	5	0,002	961-161		961-261		961-361				
FL 10	10	0,005	961-161		961-261		961-361				
FL 20	25	0,01	961-161		961-261		961-361				
FL 50	50	0,02	961-161		961-261		961-361				
FL 100	100	0,05	961-161		961-261		961-361				
FL 200	250	0,1	961-161		961-261		961-361				
FL 500	500	0,2	961-161		961-261		961-361				
FL 1K	1000	0,5	961-162		-		-				
FL 2K	2500	1	961-162		961-262		961-362				

	Adjusting program (CAL): For quick setting of the balance's accuracy. External adjusting weight required.		Data interface Infrared: To transfer data from the balance to a printer, PC or other peripheral devices.		Battery operation: Ready for battery operation. The battery type is specified for each device.
	Calibration block: standard for adjusting or correcting the measuring device.		Control outputs (optocoupler, digital I/O): to connect relays, signal lamps, valves, etc.		Rechargeable battery pack: rechargeable set.
	Peak hold function: capturing a peak value within a measuring process.		Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements.		Mains adapter: 230V/50Hz in standard version for EU. On request GB, AUS or USA version available.
	Scan mode: continuous capture and display of measurements.		Statistics: using the saved values, the device calculates statistical data, such as average value, standard deviation etc.		Power supply: Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or USA on request.
	Push and Pull: the measuring device can capture tension and compression forces.		PC Software: to transfer the measurements from the device to a PC.		Motorised drive: The mechanical movement is carried out by a motorised drive.
	Length measurement: captures the geometric dimensions of a test object or the movement during a test process.		Printer: a printer can be connected to the device to print out the measurements.		Fast-Move: the total length of travel can be covered by a single lever movement.
	Focus function: increases the measuring accuracy of a device within a defined measuring range.		GLP/ISO record keeping: of measurements with date, time and serial number. Only with SAUTER printers.		ISO Calibration: The time required for ISO calibration is shown in days in the pictogram.
	Internal memory: to save measurements in the device memory.		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.		Package shipment: The time required for internal shipping preparations is shown in days in the pictogram.
	Data interface RS-232: bidirectional, for connection of printer and PC.		Measuring with tolerance range: Upper and lower limiting can be programmed individually, e.g. for sorting and dosing.		Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram.
	Data interface USB: To connect the balance to a printer, PC or other peripheral devices.		ZERO: Resets the display to "0".		Warranty: The warranty period is shown in the pictogram.

Your SAUTER specialist dealer: