



Premium force measuring instrument with graphic-assisted display

Features

- **Turnable display** with backlight
- **Real time** or **Peak Hold Mode** to observe transients or capture peaks
- **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 (0–2 V)
- **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 internal, standard, operating time up to 10 h without backlight, charging time approx. 8 h
- Net weight approx. 515 g

Accessories

- **Force-time data transfer software** for graphical representation on the PC and data transfer to Microsoft Excel, transmission rate 20 HZ, SAUTER AFH FAST
- **Force-distance evaluation software** with graphic display of the measuring process, SAUTER AFH FD
- USB cable, SAUTER FL-A01
- **RS232 adapter cable**, SAUTER FL-A04
- Further accessory see www.sauter.eu and page 21 et seqq.

STANDARD



OPTION



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



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: