









# 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)
- 11 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.



































Model	Measuring range	Readout	Option ISO Calibration Certificate		
			Tension	Compression	Tension/Compression
	[Max]	[d]	ISO ISO	ISO	ISO
SAUTER	N	N	KERN	KERN	KERN
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

# **SAUTER Pictograms:**





#### Adjusting program (CAL):

For quick setting of the balance's accuracy. External adjusting weight required.



#### Data interface Infrared:

(optocoupler, digital I/O):

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.



# Rechargeable battery pack:

rechargeable set.



#### Calibration block:

measuring process.

standard for adjusting or correcting the measuring device.





SWITCH

#### Analogue interface:

Control outputs

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

to connect relays, signal lamps, valves, etc.



ACCU

#### Mains adapter:

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



PEAK

#### Scan mode:

Push and Pull:

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.

by a single lever movement.



#### 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:

and compression forces.

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

the measuring device can capture tension



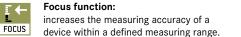
#### Printer:

a printer can be connected to the device to print out the measurements.



#### Fast-Move:

the total length of travel can be covered





# 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.

Data interface RS-232:

bidirectional, for connection



# 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:

Upper and lower limiting can be programmed individually, e.g. for sorting and dosing.



1 DAY

# in days in the pictogram.

Package shipment:

Pallet shipment: The time required for internal shipping preparations is shown

The time required for internal

shipping preparations is shown



# ZERO:

Resets the display to "0".



### Warranty:

The warranty period is shown in the pictogram.

in days in the pictogram.



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RS 232

#### Data interface USB:

of printer and PC.

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



# Your SAUTER specialist dealer: