









Premium force measuring instrument with graphic-assisted display

Features

- Turnable display with backlight
- Real time or Peak Hold Mode to observe transcients 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)
- 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 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





































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

SAUTER Pictograms:





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.



Rechargeable battery pack:

rechargeable set.



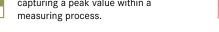
Calibration block:

standard for adjusting or correcting the measuring device.



Peak hold function:

capturing a peak value within a





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 balance to a printer, PC or other peripheral devices.



SWITCH

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 measurements from the device to a PC.



Printer:

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



GLP/ISO record keeping:

of measurements 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:

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



ZERO:

Resets the display to "0".



ACCU

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 motorised drive.



Fast-Move:

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



ISO Calibration:

The time required for ISO calibration is shown in days 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.



Warranty:

The warranty period is shown in the pictogram.

Distributed by:



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