







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
- · Limit value function, 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: 1000 Hz
- Precision: 0,2 % of [Max]
- Overload protection: 120 % of [Max]
- Dimensions W×D×H 175×75×30 mm
- · Thread: M6
- · Dimensions load cell W×D×H 51×76,2×19 mm
- Thread: M12
- · 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 Excel®, SAUTER AFI-1.0
- · 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
- Thermal printer, KERN YKB-01N
- · Statistics thermal printer, KERN YKS-01
- · Label printer, KERN YKE-01
- · For information on holders to hold objects in place as well as other accessories, please see page 24 onwards or www.sauter.eu

STANDARD





































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Model	Measuring range	Readout	Option DAkkS calibration certificate		
			Tensile force	Compressive force	Tensile/Compressive force
	[Max]	[d]	DAkkS	DAkkS	DAkkS
SAUTER	N	N	KERN	KERN	KERN
FL 5	5	0,002	963-161	963-261	963-361
FL 10	10	0,005	963-161	963-261	963-361
FL 20	25	0,01	963-161	963-261	963-361
FL 50	50	0,02	963-161	963-261	963-361
FL 100	100	0,05	963-161	963-261	963-361
FL 200	250	0,1	963-161	963-261	963-361
FL 500	500	0,2	963-161	963-261	963-361
FL 1K	1000	0,5	963-162	963-262	963-362
FL 2K	2500	1	963-162	963-262	963-362

SAUTER Pictograms:





Adjusting program (CAL):

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



Control outputs

(optocoupler, digital I/O):

to connect relays, signal lamps, valves, etc.



Mains adapter:

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



PEAK

Calibration block:

Peak hold function: capturing a peak value within a

measuring process.

standard for adjusting or correcting the measuring device.

continuous capture and display



Analogue interface:

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



Power supply:

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



Statistics:

using the saved values, the device calculates statistical data, such as average value, standard deviation etc.



Motorised drive:

The mechanical movement is carried out by a electric motor.



PC Software:

to transfer the measurements from the device to a PC.



Motorised drive:

The mechanical movement is carried out by a synchronous motor (stepper).



SCAN

Push and Pull:

of measurements.

Scan mode:

the measuring device can capture tension and compression forces.



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.



Length measurement:

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



GLP/ISO record keeping:

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



DAkkS calibration possible:

The time required for DAkkS calibration is shown in days in the pictogram.



Focus function:

increases the measuring accuracy of a device within a defined measuring range.



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.



Factory calibration:

The time required for factory calibration is specified in the pictogram.



FOCUS

Internal memory:

to save measurements in the device memory.



•0+

ZERO

Measuring with tolerance range:

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

Resets the display to "0".



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.



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.



Battery operation:

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



Warrantv:

The warranty period is shown in the pictogram.



Data interface Infrared:

To transfer data from the balance to a printer, PC or other peripheral devices.



Rechargeable battery pack:

rechargeable set.

