

Compact force measuring device

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 use in harsh environmental conditions
- **Capacity display:** A bar lights up to show how much of the measuring range is still available
- Measuring with tolerance range (limit-setting function): Upper and lower limiting can be programmed between 10 and 100% of MAX, in pull and push direction. The process is supported by an acoustic and visual signal.
- **Safety:** If loads exceed 110 % of the measuring range, the device will give clear acoustic and visual signals
- Internal memory for up to 500 measurement values
- Data interface USB standard

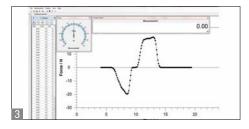
- Data interface RS-232 standard, only for connection to the printer
- Selectable: AUTO-OFF function or permanent operation
- Delivered in a robust carrying case
- · Selectable measuring units: N, kg, oz, lb
- 2 Standard attachments: as shown below
- Can be mounted on all SAUTER test stands

Technical data

- Precision: 0,3 % of [Max]
- Internal measuring frequency: 1000 Hz
- Overload protection: 150 % of [Max]
- Overall dimensions W×D×H 145×73×34 mm
 Thread: M6
- Net weight approx. 0,94 kg
- Permissible ambient temperature -10 °C/40 °C







Accessories

- El 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
- 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
- Standard attachments, SAUTER AC 43
- Matrix needle printer KERN YKN-01N
- Thermal printer, KERN YKB-01N Statistics thermal printer,
- KERN YKS-01 • Label printer, KERN YKE-01
- Further accessory see www.sauter.eu and page 25 et seqq.

STANDARD	OPTION			
	RS 232 USB PRINTER	UNIT TOL ZERO	ACCU 230 V 1 DAY	DAkkS ISO

				s. p. 67		
Model	Measuring range	Readout		Option DAkkS calibration certificate		
			Tensile for	rce Compressive fo	rce Tensile/Compressive force	
	[Max]	[d]	DAkkS	DAkkS	DAkkS	
SAUTER	N	Ν	KERN	KERN	KERN	
FC 10	10	0,01	963-161	963-261	963-361	
FC 50	50	0,01	963-161	963-261	963-361	
FC 100	100	0,1	963-161	963-261	963-361	
FC 500	500	0,1	963-161	963-261	963-361	
FC 1K	1000	1	963-162	963-262	963-362	

SAUTER Pictograms:



Adjusting program (CAL): For quick setting of the balance's accuracy. External adjusting weight required.



Calibration block:

standard for adjusting or correcting the measuring device.



Peak hold function: capturing a peak value within a measuring process.



continuous capture and display of measurements.

Scan mode:



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.



Data interface Infrared:

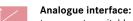
To transfer data from the balance to a printer, PC or other peripheral devices.

Your SAUTER specialist dealer:



Control outputs (optocoupler, digital I/O):

to connect relays, signal lamps, valves, etc.



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



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.



PRINT 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

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 (limit-setting function): Upper and lower limiting can be programmed individually. The process is supported by an audible or visual signal, see the relevant model

>0← ZERO:

Resets the display to "0".



ZERO

Battery operation:

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



Rechargeable battery pack: rechargeable set.

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.



by a electric motor.



Motorised drive:

Motorised drive:

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

The mechanical movement is carried out



Fast-Move:

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



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



Factory calibration:

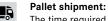
The time required for factory calibration is specified in the pictogram.



1 DAY

Package shipment:

The time required for internal shipping preparations is shown in days in the pictogram.



The time required for internal shipping preparations is shown in days in the pictogram.

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