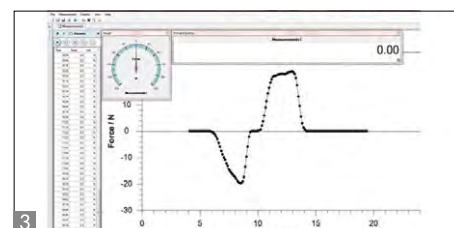


Digital force gauge SAUTER FC



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
- **1 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

- **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
- **3 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, only in combination with SAUTER LB, SAUTER AFH FD
- **RS-232/PC-Connecting cable** to connect models from the SAUTER FC range to a PC, SAUTER FC-A01
- **2 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
- For further accessories see page 30 onwards or our website

STANDARD



OPTION



Model	Measuring range	Readout	Option DAKKS calibration certificate					
			Tensile force		Compressive force		Tensile/Compressive force	
			DAKKS KERN		DAKKS KERN		DAKKS KERN	
SAUTER	[Max] N	[d] N						
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	

Pictograms

 Adjusting program (CAL): For quick setting of the instrument's accuracy. External adjusting weight required.	 Control outputs (optocoupler, digital I/O): to connect relays, signal lamps, valves, etc.	 Battery operation: Ready for battery operation. The battery type is specified for each device.
 Calibration block: standard for adjusting or correcting the measuring device.	 Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements	 Rechargeable battery pack: rechargeable set.
 Peak hold function: capturing a peak value within a measuring process.	 Statistics: using the saved values, the device calculates statistical data, such as average value, standard deviation etc.	 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.	 PC Software: to transfer the measurement data from the device to a PC.	 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.	 Printer: a printer can be connected to the device to print out the measurement data.	 Motorised drive: The mechanical movement is carried out by a electric motor.
 Length measurement: captures the geometric dimensions of a test object or the movement during a test process.	 GLP/ISO record keeping: of measurement data with date, time and serial number. Only with SAUTER printers	 Motorised drive: The mechanical movement is carried out by a synchronous motor (stepper).
 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.	 Fast-Move: the total length of travel can be covered by a single lever movement.
 Internal memory: to save measurements in the device memory.	 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	 DAKkS calibration possible: The time required for DAKkS calibration is shown in days in the pictogram.
 Data interface RS-232: bidirectional, for connection of printer and PC.		 Factory calibration: The time required for factory calibration is specified in the pictogram.
 Data interface USB: To connect the measuring instrument to a printer, PC or other peripheral devices.		 Package shipment: The time required for internal shipping preparations is shown in days in the pictogram.
 Data interface Infrared: To transfer data from the measuring instrument to a printer, PC or other peripheral devices.	 ZERO: Resets the display to "0".	 Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram.

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