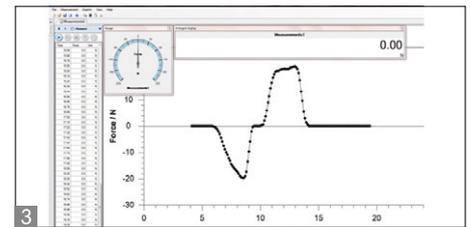


Digital force gauge SAUTER FC



Compact force gauge for tensile and compressive force measurements

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
- **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 limit adjustable, 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 up to 10 kN

Technical data

- Measuring 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
- Rechargeable battery pack integrated, standard, operating time up to 20 h without backlight, charging time approx. 4 h
- Net weight approx. 0,94 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
- **3 Force-time data transfer software** with graphic display of the measurement process, 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 printer, SAUTER FC-A01
- **2 Standard attachments**, SAUTER AC 43
- **Matrix needle printer**, KERN YKN-01
- **Thermal printer**, KERN YKB-01N
- **Statistics thermal printer**, KERN YKS-01
- **Label printer**, KERN YKE-01
- For further accessories see page 36 onwards or our website

STANDARD



OPTION



Model	Measuring range	Readout	Option DAKkS calibration certificate				
			Tensile force		Compressive force		
			DAKkS KERN		DAKkS KERN	Tensile/Compressive force	
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

1 Further calibration options on request

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.	 ZERO: Resets the display to "0".
 Calibration block: standard for adjusting or correcting the measuring device.	 Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements	 Battery operation: Ready for battery operation. The battery type is specified for each device.
 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.	 Rechargeable battery pack: rechargeable set.
 Scan mode: continuous capture and display of measurements.	 PC Software: to transfer the measurement data from the device to a PC.	 Mains adapter: 230V/50Hz in standard version for EU. On request GB, AUS or USA version available.
 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.	 Power supply: Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or USA on request.
 Length measurement: captures the geometric dimensions of a test object or the movement during a test process.	 Network interface: For connecting the scale to an Ethernet network.	 Motorised drive: The mechanical movement is carried out by a electric motor.
 Focus function: increases the measuring accuracy of a device within a defined measuring range.	 KERN Communication Protocol (KCP): It is a standardized interface command set for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers and other digital systems.	 Motorised drive: The mechanical movement is carried out by a synchronous motor (stepper).
 Internal memory: to save measurements in the device memory.		 Fast-Move: the total length of travel can be covered by a single lever movement.
 Data interface RS-232: bidirectional, for connection of printer and PC.	 GLP/ISO record keeping: of measurement data 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.
 Data interface USB: To connect the measuring instrument to a printer, PC or other peripheral devices.	 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.
 WLAN data interface: To transfer data from the balance to a printer, PC or other peripherals.	 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	 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.		 Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram.

Your KERN specialist dealer: