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 usage in harsh environmental conditions
- **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
- **Safety:** If loads exceed 110 % of the measuring range, the device will give clear acoustic and visual signals
- **Internal memory** for up to 1000 measurements

- **Data interface RS-232** (only for connection to the printer)
- Selectable: AUTO-OFF function or permanent operation
- ② Standard attachments: as shown below, extension rod: 90 mm
- Selectable measuring units: N, kg, oz, lb
- ② Standard attachments: as shown below
- Can be mounted on all SAUTER test stands (with adapter plate)

Technical data

- Precision: 0,2 % 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. 940 g
- Permissible ambient temperature -10 °C/40 °C

Accessories

- 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, 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
- 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
- Further accessory see www.sauter.eu and page 24 et seqq.

STANDARD | PEAK | PUSH/PULL | MEMORY | RS 232 | USB | GLP PRINTER | UNIT | TOL | ZERO | ACCU | 230 V | 1 DAY | 2 YEARS WARRANTY

OPTION | SOFTWARE | DAkkS +4 DAYS | ISO +4 DAYS

s. p. 65

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
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.

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.

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

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".

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.

Motorised drive:
The mechanical movement is carried out by a electric motor.

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

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.

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.

Your SAUTER specialist dealer: