Digital force gauge SAUTER FK

Robust Push/Pull force gauge for simple measurements

Features

· **Turnable display:** automatic direction identification
· **Secure operability** due to the ergonomic design
· **Peak-Hold function** to capture peaks (value is "frozen" for approx. 10 seconds) or **Track function** mode for a continuous measurement indication
· **Selectable measuring units:** N, lb, kg, oz
· **Auto-Power-Off**
· ❶ Standard attachments: as shown below, extension rod: 90 mm
· Can be mounted on all SAUTER test stands

Technical data

· Precision: 0,5 % of [Max]
· Internal measuring frequency: 1000 Hz
· Overload protection: 200 % of [Max]
· Dimensions W×D×H 195×82×35 mm
· Thread: M8
· Ready for use: Batteries included, 6×1,5 V AA
· Net weight approx. 0,72 kg

Accessories

· ❷ With one of the two optional attachments for tensile strength testing, the SAUTER FK can become a tensiometer for testing the material tension characteristics of cables, threads, wires, twine etc. (up to ⌀ 5 mm):
· **Tensiometer attachment with Safe-insert function:** Pull and release to insert the running cable in between the rolls, for tensile strength testing up to 250 N, aluminium attachment, rolls can be adjusted inwards, SAUTER FK-A01
· **Tensiometer kit for high-capacity tensile strength testing** up to 1000 N, steel attachment and steel rollers, rollers cannot be adjusted, SAUTER FK-A02
· ❶ **Standard attachments,** SAUTER AC 430
· Further accessory see www.sauter.eu and page 25 et seqq.

STANDARD

| PEAK | PUSH/PULL | ZERO | BATT | 230 V | 1 DAY |

OPTION

| ISO +4 DAYS |

Model	Measuring range	Readout		Option **Factory calibration certificate**		
				Tensile force	**Compressive force**	**Tensile/Compressive force**
SAUTER	[Max] N	[d] N		KERN	KERN	KERN
FK 10.	10	0,005		961-161O	961-261O	961-361O
FK 25.	25	0,01		961-161O	961-261O	961-361O
FK 50.	50	0,02		961-161O	961-261O	961-361O
FK 100.	100	0,05		961-161O	961-261O	961-361O
FK 250.	250	0,1		961-161O	961-261O	961-361O
FK 500.	500	0,2		961-161O	961-261O	961-361O
FK 1K.	1000	0,5		961-162O	961-262O	961-362O

SAUTER Pictograms:

SAUTER

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
(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

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.

Your SAUTER specialist dealer: