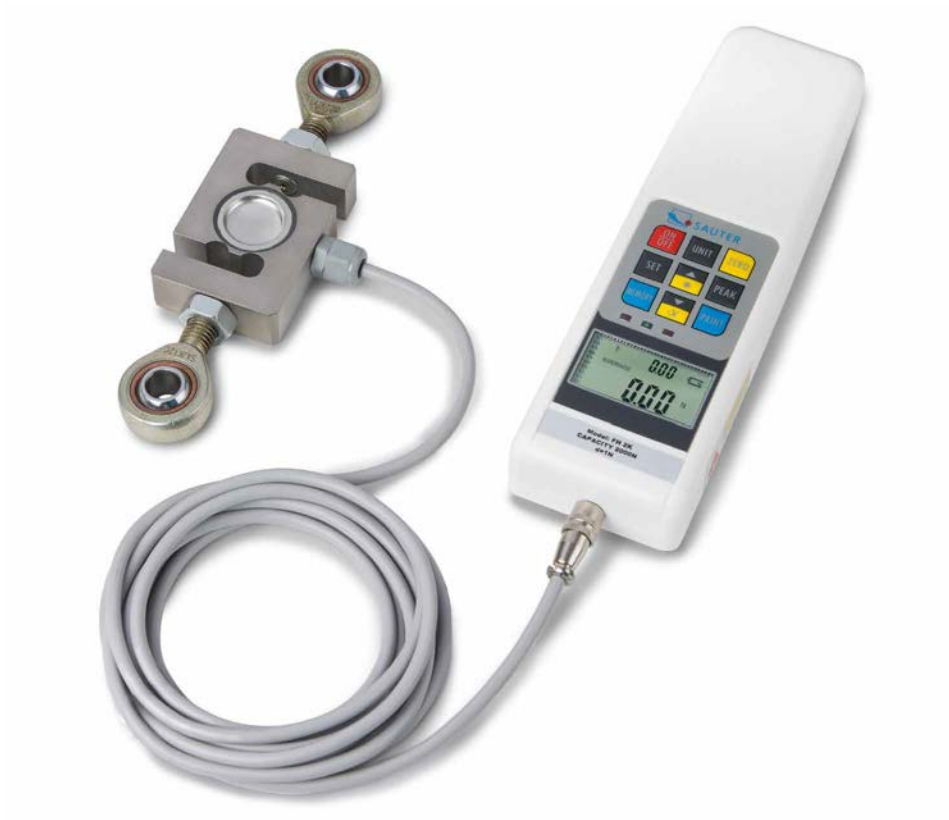
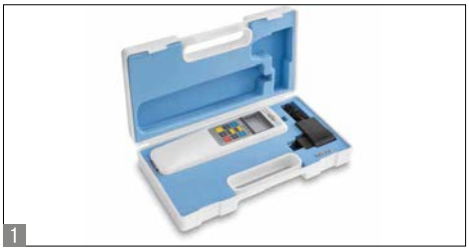
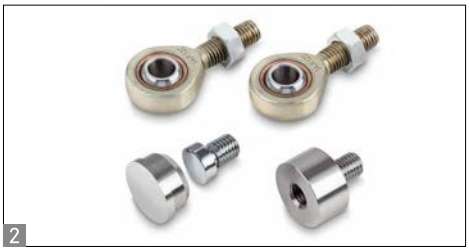
Digital force gauge SAUTER FH-M





1



2

Force measuring devices with RS-232 data interface and with external measuring cells

Features

- **Turnable display** with backlight
- Digital force gauge with remote sensor
- Cable length: approx. 3 m
- **Data interface RS-232**, included
- 1 Delivered in a hard carrying case
- Selectable measuring units: N, lb, kg, KN, t
- **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)
- **Function to set limits**, 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
- **Auto-Power-Off**
- **Internal memory** for up to 10 measurements
- **Mini Statistics Kit:** calculates the average result from up to ten stored single results, min., max., n

Technical data

- High resolution: up to 10,000 points (total measuring range)
- Measuring frequency: 2000 Hz
- Precision: 0,5 % of [Max]
- Overload protection: 150 % of [Max]
- Dimensions housing WxDxH 66x36x230 mm
- Rechargeable battery pack integrated, standard, operating time up to 12 h without backlight, charging time approx. 4 h
- 2 Tension loops and compression plates are included in delivery

FH 1K. – FH 20K.:
- Dimensions sensor WxDxH 51x76,2x19 mm
- Thread: M12

FH 5K. – FH 20K.:
- Dimensions sensor WxDxH 76,2x50,8x28,2 mm
- Thread: M12

FH 50K.:
- Dimensions sensor WxDxH 76,3x108x25,5 mm
- Thread: M18

FH 100K.:
- Dimensions sensor WxDxH 125,2x178x51,3 mm
- Thread: M30

Accessories

- **Relais module**, serves to amplify the output signal of the dynamometer to control direct actions, SAUTER AFH-02
- **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
- **Thermal printer**, SAUTER YKB-01N
- Further accessory see www.sauter.eu and page 26 et seqq.

STANDARD

OPTION

Model	Measuring range	Readout		Option **ISO Calibration Certificate**					
				Tension		Compression		Tension/Compression	
SAUTER	[Max] KN	[d] N		ISO KERN		ISO KERN		ISO KERN	
FH 1K.	1	0,5		961-162		961-262		961-362	
FH 2K.	2	1		961-162		961-262		961-362	
FH 5K.	5	1		961-163		961-263		961-363	
FH 10K.	10	5		961-163		–		–	
FH 20K.	20	10		961-164		–		–	
FH 50K.	50	10		961-165		–		–	
FH 100K.	100	50		961-166		–		–	

SAUTER GmbH · c/o KERN & SOHN GmbH · Ziegelei 1 · 72336 Balingen · Germany · Tel. + 49-[0]7433-9933-0 · Fax + 49-[0]7433-9933-149 · **www.sauter.eu**

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 motorised drive.

Fast-Move:
the total length of travel can be covered by a single lever movement.

ISO Calibration:
The time required for ISO calibration is shown in days 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: