# Digital force gauge SAUTER FH-S









# Universal digital force gauges for tension and compression tests with integrated measuring cell and RS-232 data interface

# Features

- Turnable display with backlight
- III Can be mounted on all SAUTER test stands
- Digital force gauge with internal sensor
- Data interface RS-232, included
- Standard attachments: as shown below, extension rod: 90 mm
- **I** Delivered in a hard carrying case
- Selectable measuring units: N, Ib, kg
- 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 acousitc and optical signal. Ideal mode for efficient and accurate testing of standard parts
  Auto-Power-Off

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STANDARD
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- 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)
- Internal measuring frequency: 2000 Hz
- Precision: 0,5 % of [Max]
- Overload protection: 150 % of [Max]
- Dimensions WxDxH 66x36x230 mm
- Thread: M6
- Rechargeable battery pack integrated, standard, operating time up to 12 h without backlight, charging time approx. 4 h
- Net weight approx. 0,64 kg

# 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
- Standard attachments, SAUTER AC 43
- Further accessory see www.sauter.eu and page 26 et seqq.

STANDARD	OPTION						
PEAK PUSH/PULL M		STATISTIC TOL	→ O ← IIIII	230 V 1 DAY	2 <sub>years</sub> warranty	-0 -0 SWITCH	SOFTWARE ISO +4 DAYS

Model	Measuring range	Readout	Option ISO Calibration Certificate					
	0 0		Tension	Tension Compression				
	[Max]	[d]	ISO	ISO	ISO			
SAUTER	N	Ν	KERN	KERN	KERN			
FH 2.	2	0,001	961-161	961-261	961-361			
FH 5.	5	0,001	961-161	961-261	961-361			
FH 10.	10	0,005	961-161	961-261	961-361			
FH 20.	20	0,01	961-161	961-261	961-361			
FH 50.	50	0,01	961-161	961-261	961-361			
FH 100.	100	0,05	961-161	961-261	961-361			
FH 200.	200	0,1	961-161	961-261	961-361			
FH 500.	500	0,1	961-161	961-261	961-361			

# **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.



of measurements.

Scan mode:



Push and Pull: the measuring device can capture tension and compression forces.

continuous capture and display



# 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.

of printer and PC.



Data interface RS-232 bidirectional, for connection



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.



(optocoupler, digital I/O): SWITCH to connect relays, signal lamps, valves, etc.

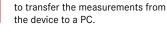


#### Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements.



using the saved values, the device STATISTIC calculates statistical data, such as average value, standard deviation etc.

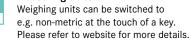






GLP/ISO record keeping: of measurements with date, time and

# Measuring units:





Measuring with tolerance range: Upper and lower limiting can be programmed individually, e.g. for sorting and dosing.





# 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.



230 V

# Power supply:

Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or USA on request.



The mechanical movement is carried out by a motorised drive.



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.



# The warranty period is shown in the pictogram.

Your SAUTER specialist dealer:







a printer can be connected to the device to print out the measurements.

Printer:

GLP PROTOCOL

S UNIT





ZERO:

Resets the display to "0".







VARRANTY



serial number. Only with SAUTER printers.

MOTOR

Motorised drive:

Fast-Move: