





## 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
-  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
-  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](http://www.sauter.eu) and page 26 et seqq.

#### STANDARD

































#### OPTION



Model	Measuring range [Max] KN	Readout [d] N	Option ISO Calibration Certificate					
			Tension		Compression		Tension/Compression	
			ISO KERN		ISO KERN		ISO KERN	
SAUTER								
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		-		-	

Datasheet\_FH-K\_V1

 <b>Adjusting program (CAL):</b> For quick setting of the balance's accuracy. External adjusting weight required.	 <b>Data interface Infrared:</b> To transfer data from the balance to a printer, PC or other peripheral devices.	 <b>Battery operation:</b> Ready for battery operation. The battery type is specified for each device.
 <b>Calibration block:</b> standard for adjusting or correcting the measuring device.	 <b>Control outputs (optocoupler, digital I/O):</b> to connect relays, signal lamps, valves, etc.	 <b>Rechargeable battery pack:</b> rechargeable set.
 <b>Peak hold function:</b> capturing a peak value within a measuring process.	 <b>Analogue interface:</b> to connect a suitable peripheral device for analogue processing of the measurements.	 <b>Mains adapter:</b> 230V/50Hz in standard version for EU. On request GB, AUS or USA version available.
 <b>Scan mode:</b> continuous capture and display of measurements.	 <b>Statistics:</b> using the saved values, the device calculates statistical data, such as average value, standard deviation etc.	 <b>Power supply:</b> Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or USA on request.
 <b>Push and Pull:</b> the measuring device can capture tension and compression forces.	 <b>PC Software:</b> to transfer the measurements from the device to a PC.	 <b>Motorised drive:</b> The mechanical movement is carried out by a motorised drive.
 <b>Length measurement:</b> captures the geometric dimensions of a test object or the movement during a test process.	 <b>Printer:</b> a printer can be connected to the device to print out the measurements.	 <b>Fast-Move:</b> the total length of travel can be covered by a single lever movement.
 <b>Focus function:</b> increases the measuring accuracy of a device within a defined measuring range.	 <b>GLP/ISO record keeping:</b> of measurements with date, time and serial number. Only with SAUTER printers.	 <b>ISO Calibration:</b> The time required for ISO calibration is shown in days in the pictogram.
 <b>Internal memory:</b> to save measurements in the device memory.	 <b>Measuring units:</b> Weighing units can be switched to e.g. non-metric at the touch of a key. Please refer to website for more details.	 <b>Package shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram.
 <b>Data interface RS-232:</b> bidirectional, for connection of printer and PC.	 <b>Measuring with tolerance range:</b> Upper and lower limiting can be programmed individually, e.g. for sorting and dosing.	 <b>Pallet shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram.
 <b>Data interface USB:</b> To connect the balance to a printer, PC or other peripheral devices.	 <b>ZERO:</b> Resets the display to "0".	 <b>Warranty:</b> The warranty period is shown in the pictogram.

**Your SAUTER specialist dealer:**