



Force-measuring devices with external measuring cells

Features

- **Turnable display** with backlight
- Digital force gauge with remote sensor
- **Data interface RS-232**
- Delivered in a hard carrying case
- Selectable measuring units: N, lb, kg, kN, t
- **Real time or Peak Hold Mode** to observe transients or capture peaks
- **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 LxWxH 238x63x36 mm
- Rechargeable battery pack internal, 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. - FH20K.:

- Dimensions sensor BxTxH 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, transmission rate 20 HZ, SAUTER AFH FAST
- **Force-distance evaluation software** with graphic display of the measuring process, SAUTER AFH FD
- **Thermal printer**, SAUTER YKB-01N
- Further accessory see www.sauter.eu and page 21 et seqq.































STANDARD



OPTION



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

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

Your SAUTER specialist dealer: