



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

Features

- **Turnable display** with backlight
- Cable length: approx. 3 m
- **Data interface RS-232**, included
- **Delivered in a robust carrying case**
- **Selectable measuring units:** N, kN, kg, t, lb
- **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)
- **Measuring with tolerance range (limit-setting function):** Upper and lower limiting can be programmed individually, in pull and push direction. The process is supported by an audible and visual signal.
- **Auto-Power-Off**
- **Internal memory** for up to 10 measurement values
- **Mini Statistics Kit:** calculates the average result from up to 10 stored measured values, as well as, 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 W×D×H 66×36×230 mm
- Rechargeable battery pack integrated, standard, operating time up to 12 h without backlight, charging time approx. 4 h
- **1** Tension loops and compression plates are included in delivery
- Cable length approx 3 m

FH 1K.-FH 2K.:

- Dimensions load cell W×D×H 76,2×51×19 mm
- Thread: M12

FH 5K.-FH 20K.:

- Dimensions load cell W×D×H 76,2×51×28,2 mm
- Thread: M12

FH 50K.:

- Dimensions load cell W×D×H 108×76,3×25,5 mm
- Thread: M18

FH 100K.:

- Dimensions load cell W×D×H 178×152,2×51,3 mm
- Thread: M30

Accessories

- **Relais module**, serves to transfer 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 graphical representation of the measurement process, SAUTER AFH FD
- **Matrix needle printer** KERN YKN-01N
- **Thermal printer**, KERN YKB-01N
- **Statistics thermal printer**, KERN YKS-01
- **Label printer**, KERN YKE-01
- Further accessory see www.sauter.eu and page 25 et seqq.

STANDARD


































OPTION



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| Model | Measuring range [Max] | Readout [d] | Option DAkks calibration certificate (≤ 5 kN)/Factory calibration certificate | | | |
|----------|--------------------------|----------------|--|--|-------------------|---------------|
| | | | Tensile force | | Compressive force | |
| | | | DAkks KERN | | DAkks KERN | DAkks KERN |
| SAUTER | kN | N | | | | |
| FH 1K. | 1 | 0,5 | 963-162 | | 963-262 | 963-362 |
| FH 2K. | 2 | 1 | 963-162 | | 963-262 | 963-362 |
| FH 5K. | 5 | 1 | 963-163 | | 963-263 | 963-363 |
| FH 10K. | 10 | 5 | 961-164 | | - | - |
| 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. |  | Control outputs (optocoupler, digital I/O): to connect relays, signal lamps, valves, etc. |  | Rechargeable battery pack: rechargeable set. |
|  | Calibration block: standard for adjusting or correcting the measuring device. |  | 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. |
|  | Peak hold function: capturing a peak value within a measuring process. |  | 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. |
|  | Scan mode: continuous capture and display of measurements. |  | PC Software: to transfer the measurements from the device to a PC. |  | Motorised drive: The mechanical movement is carried out by an electric motor. |
|  | Push and Pull: the measuring device can capture tension and compression forces. |  | Printer: a printer can be connected to the device to print out the measurements. |  | Motorised drive: The mechanical movement is carried out by a synchronous motor (stepper). |
|  | Length measurement: captures the geometric dimensions of a test object or the movement during a test process. |  | GLP/ISO record keeping: of measurements with date, time and serial number. Only with SAUTER printers. |  | 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. |  | 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. |  | DAkKS calibration possible: The time required for DAkKS calibration is shown in days in the pictogram. |
|  | Internal memory: to save measurements in the device memory. |  | 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 |  | Factory calibration: The time required for factory calibration is specified in the pictogram. |
|  | Data interface RS-232: bidirectional, for connection of printer and PC. |  | ZERO: Resets the display to "0". |  | Package 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. |  | Battery operation: Ready for battery operation. The battery type is specified for each device. |  | Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram. |
|  | Data interface Infrared: To transfer data from the balance to a printer, PC or other peripheral devices. | | | | |

Your SAUTER specialist dealer:

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