Robust Push/Pull force gauge for simple measurements

**Features**
- **Turnable display**: automatic direction identification
- **Secure operability** due to the ergonomic design
- **Peak-Hold function** to capture peaks (value is “frozen” for approx. 10 seconds) or **Track function** mode for a continuous measurement indication
- **Selectable measuring units**: N, lb, kg, oz
- **Auto-Power-Off**
- **Standard attachments**: as shown below, extension rod: 90 mm
- Can be mounted on all SAUTER test stands

**Technical data**
- **Precision**: 0.5 % of [Max]
- **Internal measuring frequency**: 1000 Hz
- **Overload protection**: 200 % of [Max]
- **Dimensions W×D×H**: 195×82×35 mm
- **Thread**: M8
- **Ready for use**: Batteries included, 6×1,5 V AA
- **Net weight approx.**: 0.72 kg

**Accessories**
- With one of the two optional attachments for tensile strength testing, the SAUTER FK can become a tensiometer for testing the material tension characteristics of cables, threads, wires, twine etc. (up to Ø 5 mm):
  - **Tensiometer attachment with Safe-insert function**: Pull and release to insert the running cable in between the rolls, for tensile strength testing up to 250 N, aluminium attachment, rolls can be adjusted inwards, SAUTER FK-A01
  - **Tensiometer kit for high-capacity tensile strength testing** up to 1000 N, steel attachment and steel rollers, rollers cannot be adjusted, SAUTER FK-A02
- **Standard attachments**, SAUTER AC 430
- Further accessory see www.sauter.eu and page 25 et seqq.

<table>
<thead>
<tr>
<th>Model</th>
<th>Measuring range (Max) N</th>
<th>Readout [d] N</th>
<th>Option</th>
<th>Factory calibration certificate</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAUTER</td>
<td></td>
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<td>Tensile force</td>
</tr>
<tr>
<td>FK 10.</td>
<td>10</td>
<td>0.005</td>
<td>KERN</td>
<td>961-1610</td>
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<tr>
<td>FK 25.</td>
<td>25</td>
<td>0.01</td>
<td>KERN</td>
<td>961-1610</td>
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<tr>
<td>FK 50.</td>
<td>50</td>
<td>0.02</td>
<td>KERN</td>
<td>961-1610</td>
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<tr>
<td>FK 100.</td>
<td>100</td>
<td>0.05</td>
<td>KERN</td>
<td>961-1610</td>
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<tr>
<td>FK 250.</td>
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<td>0.1</td>
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<td>FK 500.</td>
<td>500</td>
<td>0.2</td>
<td>KERN</td>
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<tr>
<td>FK 1K.</td>
<td>1000</td>
<td>0.5</td>
<td>KERN</td>
<td>961-1620</td>
</tr>
</tbody>
</table>
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 (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.

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 an electric motor.

Motorised drive: The mechanical movement is carried out by a synchronous motor (stepper).

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

DAkkS calibration possible: The time required for DAkkS calibration is shown in days in the pictogram.

Factory calibration: The time required for factory calibration is specified 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.

Your SAUTER specialist dealer: