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

**Features**
- Turnable display with backlight
- Can be mounted on all SAUTER test stands
- Data interface RS-232, included
- Standard attachments: as shown below, extension rod: 90 mm
- Delivered in a robust carrying case
- Selectable measuring units: N, lb, 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)
- 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)
- Internal measuring frequency: 2000 Hz
- Precision: 0.5 % of [Max]
- Overload protection: 150 % of [Max]
- Dimensions W×D×H 66×36×230 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 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
- Standard attachments, SAUTER AC 43
- 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.
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 a 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.