



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
- $\boldsymbol{\cdot}$ $\boldsymbol{\mathbb{S}}$ Delivered in a robust carrying case
- $\boldsymbol{\cdot}$ 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 reprensentation 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.



Model	Measuring range	Readout	Option DAkkS calibration certificate		
			Tensile force	Compressive force	Tensile/Compressive force
	[Max]	[d]	DAkkS	DAkkS	DAkkS
SAUTER	N	Ν	KERN	KERN	KERN
FH 2.	2	0,001	-	-	-
FH 5.	5	0,001	-	-	-
FH 10.	10	0,005	963-161	963-261	963-361
FH 20.	20	0,01	963-161	963-261	963-361
FH 50.	50	0,01	963-161	963-261	963-361
FH 100.	100	0,05	963-161	963-261	963-361
FH 200.	200	0,1	963-161	963-261	963-361
FH 500.	500	0,1	963-161	963-261	963-361

SAUTER Pictograms:



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.



continuous capture and display of measurements.

Scan mode:



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:

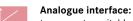
To transfer data from the balance to a printer, PC or other peripheral devices.

Your SAUTER specialist dealer:



Control outputs (optocoupler, digital I/O):

to connect relays, signal lamps, valves, etc.



to connect a suitable peripheral device for analogue processing of the measurements.



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.



PRINT 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

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

>0← ZERO:

Resets the display to "0".



ZERO

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.



by a electric motor.



Motorised drive:

Motorised drive:

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

The mechanical movement is carried out



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:

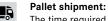
The time required for factory calibration is specified in the pictogram.



1 DAY

Package shipment:

The time required for internal shipping preparations is shown in days in the pictogram.



The time required for internal shipping preparations is shown in days in the pictogram.

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