



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

Features

- · Turnable display with backlight
- II Can be mounted on all SAUTER test stands
- · Digital force gauge with internal sensor
- · Data interface RS-232, included
- 2 Standard attachments: as shown below, extension rod: 90 mm
- 3 Delivered in a hard 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)
- Limit value function, programming of Max./ Min., in pull and push direction, with output of acousitc 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)
- 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 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®, SAUTER AFH FAST
- Force-displacement data transfer software with graphic display 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 24 et seqq.

STANDARD



































			s. p. 6	5	
Model	Measuring range	Readout	Option DAkkS calibration certificate		
			Tensile force	Compressive force	Tensile/Compressive force
	[Max]	[d]	DAkkS	DAkkS	DAkkS
SAUTER	N	N	KERN	KERN	KERN
FH 2.	2	0,001	963-161	963-261	963-361
FH 5.	5	0,001	963-161	963-261	963-361
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.



Control outputs

(optocoupler, digital I/O):

to connect relays, signal lamps, valves, etc.



Mains adapter:

230V/50Hz in standard version for EU. On request GB, AUS or USA version available.



PEAK

SCAN

Calibration block:

Peak hold function:

measuring process.

of measurements.

Scan mode:

standard for adjusting or correcting the measuring device.

capturing a peak value within a

continuous capture and display



Analogue interface:

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



Power supply:

Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or USA on request.



Statistics:

using the saved values, the device calculates statistical data, such as average value, standard deviation etc.



Motorised drive:

The mechanical movement is carried out by a electric motor.



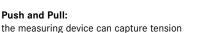
PC Software:

to transfer the measurements from the device to a PC.



Motorised drive:

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





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.



Length measurement:

and compression forces.

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.



DAkkS calibration possible:

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



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.



Factory calibration:

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



Internal memory:

to save measurements in the device memory.

Data interface RS-232:

bidirectional, for connection

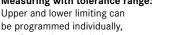


•0+

ZERO

Measuring with tolerance range:

be programmed individually, e.g. for sorting and dosing.





Package shipment:

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



Resets the display to "0".



Pallet shipment:

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



Warrantv:

The warranty period is shown in the pictogram.



USB

((((:•

IR

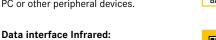
Data interface USB:

of printer and PC.

To connect the balance to a printer, PC or other peripheral devices.

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.



Rechargeable battery pack:

rechargeable set.

Your SAUTER specialist dealer:



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