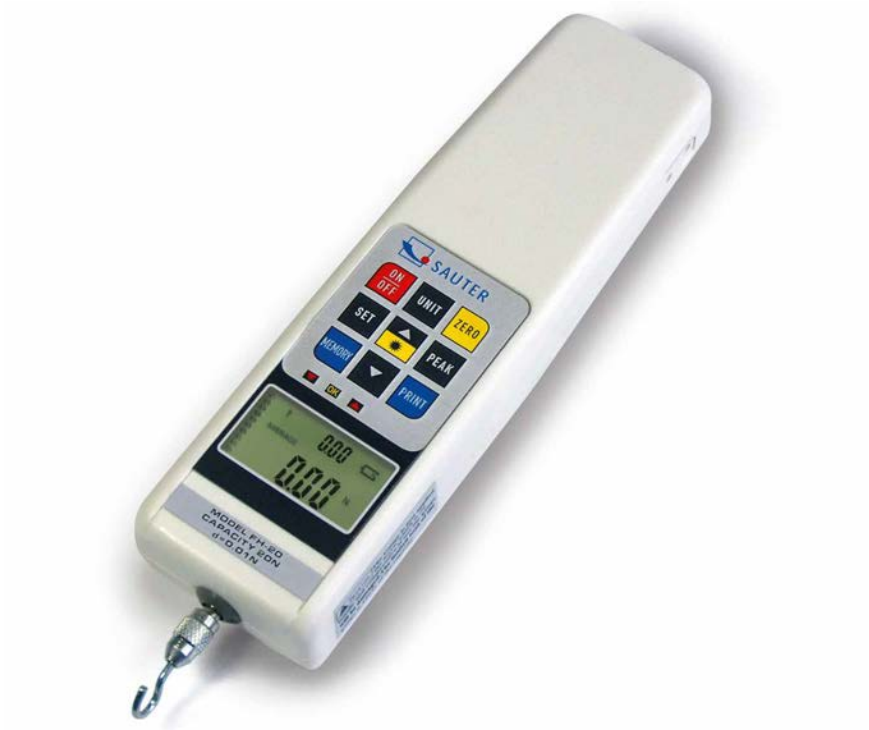

Universal digital force gauges for tension and compression tests with integrated measuring cell and RS-232 data interface

Features

- **Turnable display** with backlight
- 1 Can be mounted on all SAUTER test stands
- **Data interface RS-232,** included
- 2 Standard attachments: as shown below, extension rod: 90 mm
- 3 **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 reprensentation of the measurement process, SAUTER AFH FD
- 2 **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.

STANDARD

OPTION

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Model SAUTER	Measuring range [Max] N	Readout [d] N		Option **DAkkS calibration certificate**					
				Tensile force		Compressive force		Tensile/Compressive force	
				DAkkS KERN		DAkkS KERN		DAkkS 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	

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SAUTER Pictograms:

CAL EXT
Adjusting program (CAL):
For quick setting of the balance's accuracy. External adjusting weight required.

CAL BLOCK
Calibration block:
standard for adjusting or correcting the measuring device.

PEAK
Peak hold function:
capturing a peak value within a measuring process.

SCAN
Scan mode:
continuous capture and display of measurements.

PUSH/PULL
Push and Pull:
the measuring device can capture tension and compression forces.

SCALE
Length measurement:
captures the geometric dimensions of a test object or the movement during a test process.

FOCUS
Focus function:
increases the measuring accuracy of a device within a defined measuring range.

MEMORY
Internal memory:
to save measurements in the device memory.

RS 232
Data interface RS-232:
bidirectional, for connection of printer and PC.

USB
Data interface USB:
To connect the balance to a printer, PC or other peripheral devices.

IR
Data interface Infrared:
To transfer data from the balance to a printer, PC or other peripheral devices.

SWITCH
Control outputs (optocoupler, digital I/O):
to connect relays, signal lamps, valves, etc.

ANALOG
Analogue interface:
to connect a suitable peripheral device for analogue processing of the measurements.

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

SOFTWARE
PC Software:
to transfer the measurements from the device to a PC.

PRINT
Printer:
a printer can be connected to the device to print out the measurements.

GLP PROTOCOL
GLP/ISO record keeping:
of measurements with date, time and serial number. Only with SAUTER printers.

UNIT
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.

TOL
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
ZERO:
Resets the display to "0".

BATT
Battery operation:
Ready for battery operation. The battery type is specified for each device.

ACCU
Rechargeable battery pack:
rechargeable set.

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

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

ELECTRO
Motorised drive:
The mechanical movement is carried out by a electric motor.

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

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

DAkkS +3 DAYS
DAkkS calibration possible:
The time required for DAkkS calibration is shown in days in the pictogram.

ISO +4 DAYS
Factory calibration:
The time required for factory calibration is specified in the pictogram.

DAYS
Package shipment:
The time required for internal shipping preparations is shown in days in the pictogram.

1 DAY
Pallet shipment:
The time required for internal shipping preparations is shown in days in the pictogram.

Your SAUTER specialist dealer:

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