Spring balances SAUTER 283

Precise, mechanical spring balances in robust aluminium housing with Newton readout

Features

· **Aluminium scale tube:** robust, long service life, rustproof
· **Newton scale:** Measuring result displayed in Newton
· **Compressive force measurement:** possible using an optional pressure set, see accessories
· **Carrying handle as standard**
· **Drag pointer as standard** on all models of the SAUTER 283 range with [Max] ≥ 50 N
· **Handrail:** thanks to the rotating handrail the scale can always be aligned to be at the very best line of sight, on all models of the SAUTER 283 range with [Max] ≥ 50 N
· **High precision:** Zero-play spring bearing with integrated tare screw for highly-precise adjustment
· **Non-fatigue stainless steel spring**

· **Clip loop** which can be freely rotated of the lower suspension bracket by 360°
· **High-quality workmanship:** Wear-resistant, colour-anodised precision scale with high resolution for accurate readout of the measuring result

Technical data

· Accuracy of: ± 0,3 % of the load
· Tare range: 20 % of [Max]

Accessories

· **1 Pressure-Set,** suitable for models with weighing range < 2,5 kg/25 N, SAUTER 281-890
· **2 Pressure-Set,** suitable for models with weighing range ≥ 5 kg/50 N, SAUTER 285-890
· **3 Clip,** suitable for models with weighing range ≤ 2,5 kg/25 N, SAUTER 281-151-002
· **4 Drag pointer** for spring balances, suitable for models with weighing range < 2,5 kg/25 N, SAUTER 281-051-001
· **Drag pointer** for spring balances, suitable for models with weighing range ≥ 5 kg/50 N, SAUTER 285-897

STANDARD
1 DAY

OPTION
ISO +4 DAYS

Model	Measuring range [Max]	Division [d]	Load support	5 Dimensions				Option Factory calibration certificate	
				Lmin	Lmax	∅			
SAUTER	N	N		mm	mm	mm		KERN	
283-152	1	0,01	clip	225	305	12		961-161O	
283-252	3	0,02	clip	225	325	12		961-161O	
283-302	6	0,05	clip	225	325	12		961-161O	
283-402	10	0,1	hook	225	325	12		961-161O	
283-422	25	0,2	hook	225	325	12		961-161O	
283-483	50	0,5	hook	370	510	32		961-161O	
283-502	100	1	hook	370	510	32		961-161O	
283-602	200	2	hook	370	510	32		961-161O	
283-902	500	5	hook	370	460	32		961-161O	

Datasheet_283_V1

Pictograms

Adjusting program (CAL):
For quick setting of the instrument'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 measuring instrument to a printer, PC or other peripheral devices.

Data interface Infrared:
To transfer data from the measuring instrument 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 measurement data from the device to a PC.

Printer:
a printer can be connected to the device to print out the measurement data.

GLP/ISO record keeping:
of measurement data 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.

Your KERN specialist dealer: