

Spring balances SAUTER 281/285



SAUTER 281



SAUTER 285



Precise, mechanical spring balances in robust aluminium housing with g/kg readout

Features

- **Aluminium scale tube:** robust, long service life, rustproof
- **Gramme/Kilogram scale:** Measuring result display in grammes or kilograms instead of N
- **Compressive force measurement:** possible using an optional pressure set, see accessories
- **Drag pointer** and **carrying handle:** as standard on all models of the SAUTER 285 range
- **Handrail:** thanks to the rotating handrail the scale can always be aligned to be at the very best line of sight
- **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° for models with [Max] ≤ 1 kg

- **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
- **Bird weighing cone**, suitable for models with weighing range 50–500 g, SAUTER 281-891
- **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



Model	Weighing range [Max]	Division [d]	Load support	5 Dimensions			Option	
				Lmin	Lmax	∅	Factory calibration certificate	
SAUTER	g	g		mm	mm	mm	KERN	
281-101	10	0,1	clip	220	300	12	961-100	
281-151	30	0,25	clip	220	300	12	961-100	
281-201	60	0,25	clip	220	300	12	961-100	
281-301	100	1	clip	220	300	12	961-100	
281-401	300	2	clip	220	320	12	961-100	
281-451	600	5	clip	220	320	12	961-100	
281-601	1000	10	clip	220	320	12	961-100	
281-752	2500	20	hook	225	325	12	961-100	
285-052	5000	50	hook	370	510	32	961-100	
285-102	10000	100	hook	370	510	32	961-101	
285-202	20000	200	hook	370	510	32	961-101	
285-352	35000	500	hook	370	460	32	961-101	
285-502	50000	500	hook	370	460	32	961-101	

Datasheet_281_285_V1

Pictograms

 Adjusting program (CAL): For quick setting of the instrument's accuracy. External adjusting weight required.	 Control outputs (optocoupler, digital I/O): to connect relays, signal lamps, valves, etc.	 Battery operation: Ready for battery operation. The battery type is specified for each device.
 Calibration block: standard for adjusting or correcting the measuring device.	 Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements	 Rechargeable battery pack: rechargeable set.
 Peak hold function: capturing a peak value within a measuring process.	 Statistics: using the saved values, the device calculates statistical data, such as average value, standard deviation etc.	 Mains adapter: 230V/50Hz in standard version for EU. On request GB, AUS or USA version available.
 Scan mode: continuous capture and display of measurements.	 PC Software: to transfer the measurement data from the device to a PC.	 Power supply: Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or USA on request.
 Push and Pull: the measuring device can capture tension and compression forces.	 Printer: a printer can be connected to the device to print out the measurement data.	 Motorised drive: The mechanical movement is carried out by an electric motor.
 Length measurement: captures the geometric dimensions of a test object or the movement during a test process.	 GLP/ISO record keeping: of measurement data with date, time and serial number. Only with SAUTER printers	 Motorised drive: The mechanical movement is carried out by a synchronous motor (stepper).
 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.	 Fast-Move: the total length of travel can be covered by a single lever movement.
 Internal memory: to save measurements in the device memory.	 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	 DAkkS calibration possible: The time required for DAkkS calibration is shown in days in the pictogram.
 Data interface RS-232: bidirectional, for connection of printer and PC.	 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.
 Data interface USB: To connect the measuring instrument to a printer, PC or other peripheral devices.	 ZERO: Resets the display to "0".	 Package shipment: The time required for internal shipping preparations is shown in days in the pictogram.
 Data interface Infrared: To transfer data from the measuring instrument to a printer, PC or other peripheral devices.	 ZERO: Resets the display to "0".	 Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram.

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