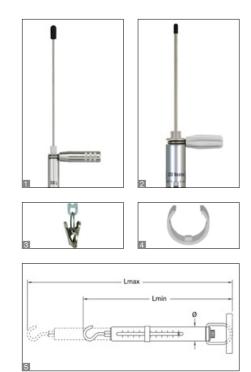


Spring balances SAUTER 281/285







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

Features

- · Aluminium scale tube: robust, long service life, rustproof
- Gram/Kilogram scale: Measuring result display in grams/kilograms instead of N
- Double scale: For fast or precise recording of the measurement result
- Compressive force measurement: possible using an optional pressure set, see accessories
- Drag pointer and carrying handle: as standard for all models of the SAUTER 285 range
- · Suspension bow: thanks to the rotating suspension bow the scale can always be aligned to be at the very best line of sight

- · High precision: Backlash-free 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 $[Max] \le 1 \text{ kg}$
- · High-quality workmanship: Wear-resistant, colour-anodised precision scale with high resolution for accurate readout of the measuring result

Technical data

- Measuring precision: ± 0,3 % of [Max]
- Tare range: 20 % of [Max]

Accessories

- 11 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 $\geq 5 \text{ kg/}50 \text{ N}$, SAUTER 285-890
- 3 Clip, suitable for models with weighing range \leq 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



_	OI IIOI
_	
	ISO
	+4 DAYS

Model	Weighing	Division	Load support _	5 Dimensions			Option
	range			Lmin	Lmax	Ø	Factory calibration certificate
	[Max]	[d]					
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	0,5	clip	220	300	12	961-100
281-301	100	1	clip	220	300	12	961-100
281-401	300	2	clip	225	325	12	961-100
281-451	600	5	clip	225	325	12	961-100
281-601	1000	10	clip	225	325	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



MEASURING TECHNOLOGY & TEST SERVICE 2023

SAUTER 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



Profibus:

For transmitting data, e.g. between scales, measuring cells, controllers and peripheral devices over long distances. Suitable for safe, fast, fault-tolerant data transmission. Less susceptible to magnetic interference.



Profinet:

Enables efficient data exchange between decentralised peripheral devices (balances, measuring cells, measuring instruments etc.) and a control unit (controller). Especially advantageous when exchanging complex measured values, device, diagnostic and process information. Savings potential through shorter commissioning times and device integration possible



Data interface USB:

To connect the measuring instrument to a printer, PC or other peripheral devices



Bluetooth* data interface:

To transfer data from the balance/ measuring instrument to a printer, PC or other peripherals



WLAN data interface:

To transfer data from the balance/ measuring instrument to a printer, PC or other peripherals



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



Analog output:

For output of an electrical signal depending on the load (e.g. voltage 0 V - 10 V or current 4 mA - 20 mA)



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



Network interface:

For connecting the scale/measuring instrument to an Ethernet network



KERN Communication Protocol (KCP):

It is a standardized interface command set for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers and other digital systems



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. 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



Protection against dust and water splashes IPxx:

The type of protection is shown in the pictogram cf. DIN EN 60529:2000-09, IEC 60529:1989+A1:1999+A2:2013

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



Plug-in power supply:

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



Integrated power supply unit: 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



Verification possible:

Models with type approval for construction of verifiable systems



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



Pallet shipment:

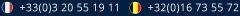
The time required for internal shipping preparations is shown in days in the pictogram

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[→]0+ ZERO