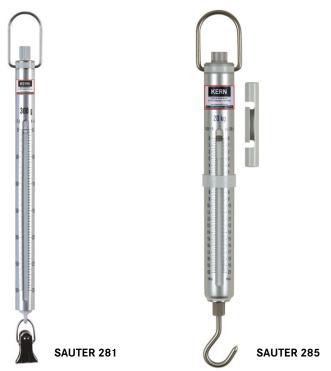
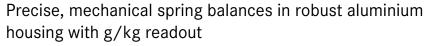


Spring balances SAUTER 281/285







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 $[Max] \le 1 \text{ kg}$

· High-quality workmanship: Wear-resistant, colour-anodised precision scale with high resolution for accurate readout of the measuring result

Technical data

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

Accessories

- II 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 \leq 2,5 kg/25 N, SAUTER 281-151-002
- · Bird weighing cone, suitable for models with weighing range 50-500 g, SAUTER 281-891
- **I** 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**





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Model	Weighing	Division	Load support	5 Dimensions			Option
	range		1 ''	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	0,25	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.



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

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: