

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
- Gramme/Kilogram scale: Measuring result display in grammes (SAUTER 281) or kilograms (SAUTER 285) 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 on 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: 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**

- Measuring precision:  $\pm$  0,3 % of [Max]
- Tare range: 20 % of [Max]

# Accessories

- In 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
- In 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	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	0,25	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

# **SAUTER CATALOGUE 2021**

# 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



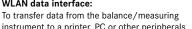
# Bluetooth\* data interface:

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



# WLAN data interface:

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 data



### 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 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



# Protection against dust and water

# splashes IPxx:

The type of protection is shown in the pictogram.



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



# Verification possible:

The time required for verification is specified in the pictogram



# 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:

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