SAUTER CATALOGUE 2021

Spring balances SAUTER 283

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

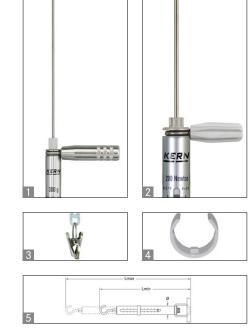
Features

- Aluminium scale tube: robust, long service life, rustproof
- Newton scale: Measuring result displayed in Newton
- Double scale: For fast or precise recording of the measurement result
- 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 $[Max] \ge 50 \text{ N}$
- Suspension bow: thanks to the rotating suspension bow 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

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



Accessories

- II Pressure-Set, suitable for models with weighing range < 2,5 kg/25 N, SAUTER 281-890
- Pressure-Set, suitable for models with weighing range ≥ 5 kg/50 N, SAUTER 285-890
- Clip, suitable for models with weighing range ≤ 2,5 kg/25 N, SAUTER 281-151-002
- Image 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	Measuring	Division	Load support	5 Dimensions			Option
	range		[Lmin	Lmax	Ø	Factory calibration certificate
	[Max]	[d]					
SAUTER	N	N		mm	mm	mm	KERN
283-152	1	0,01	clip	225	305	12	961-1610
283-252	3	0,02	clip	225	325	12	961-1610
283-302	6	0,05	clip	225	325	12	961-1610
283-402	10	0,1	hook	225	325	12	961-1610
283-422	25	0,2	hook	225	325	12	961-1610
283-483	50	0,5	hook	370	510	32	961-1610
283-502	100	1	hook	370	510	32	961-1610
283-602	200	2	hook	370	510	32	961-1610
283-902	500	5	hook	370	460	32	961-1610



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Pictograms



Adjusting program (CAL): For quick setting of the instrument's accuracy. External adjusting weight required



Calibration block: Standard for adjusting or correcting



Peak hold function:

the measuring device

Capturing a peak value within a measuring process



Scan mode: Continuous capture and display of measurements



The measuring device can capture tension and compression forces

Push and Pull:



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



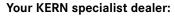
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Data interface USB:

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



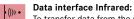
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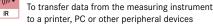
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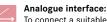
WLAN data interface:

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



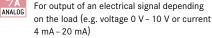






To connect a suitable peripheral device for ANALOG analogue processing of the measurements

Analog output:



Statistics:

Using the saved values, the device calculates statistical data, such as average value, standard deviation etc.



Im

STATISTIC

PC Software: To transfer the measurement data from the device to a PC

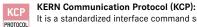
Printer:

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



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 PRINTER serial number. Only with SAUTER printers

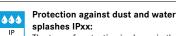
Measuring units: S

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



The type of protection is shown in the pictogram.

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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 ELECTRO out by a electric motor



Motorised drive:

The mechanical movement is carried out by a synchronous motor (stepper)



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Verification possible:

Factory calibration:

Package shipment:

Pallet shipment:

specified in the pictogram

The time required for verification is specified in the pictogram

The time required for factory calibration is

The time required for internal shipping

The time required for internal shipping

preparations is shown in days in the pictogram

preparations is shown in days in the pictogram



ISO

+4 DAYS

1 DAY

2 DAYS

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DAkkS calibration possible:

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