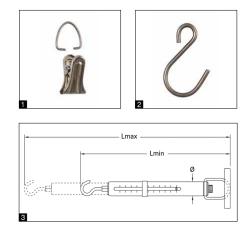


Spring Balances SAUTER 287 · 289





Mechanical weight and force measurement with quality spring for long service life

Features

- The very best price/performance ratio thanks to the transparent plastic housing, ideal for schools and educational institutions
- · Newton scale: The SAUTER 289 range can display the results in Newtons instead of in grammes, specifically for measuring tensile forces
- · Double scale: For fast or precise recording of the measurement result
- · High precision: Backlash-free spring bearing with integrated tare screw for highly-precise adjustment
- · Non-fatigue stainless steel spring
- · Abrasion-resistant, colour precision scale with high resolution

- · Thanks to the rotating inner tube, the scale is always easy to read
- · The bracket which is delivered as standard can easily be swapped for another suspension device, so that the system can be individually adapted to the items being weighed

Technical data

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

Accessories

- • Bracket for spring balances of 10 - 1000 g / 0,1 - 10 N, **SAUTER 287-A01**
- 2 Hook for spring balances 10 - 1000 g/0,1 - 10 N, **SAUTER 287-A02**







Model	Measuring range	Division	Load support	3 Dimensions			Option
	fr		_	Lmin	Lmax	Ø	Factory calibration certificate
	[Max]	[d]					
SAUTER	N	N		mm	mm	mm	KERN
289-100	1	0,01 0,05	Hook	230	335	12,2	961-1610
289-102	5	0,05 0,5	Hook	230	335	12,2	961-1610
289-104	10	0,1 0,5	Hook	235	335	12,2	961-1610

Modell	Weighing range	Division	Load support	3 Dimensions			Option
				Lmin	Lmax	ø	Factory calibration certificate
	[Max]	[d]	-				•
SAUTER	N	N		mm	mm	mm	KERN
287-100	10	0,1	Clip	225	330	12,2	961-100
287-102	20	0,2	Clip	225	330	12,2	961-100
287-104	50	0,5	Clip	225	330	12,2	961-100
287-106	100	1	Clip	225	330	12,2	961-100
287-108	500	5	Clip	225	330	12,2	961-100
287-110	1000	10	Clip	225	330	12.2	961-100

MEASURING TECHNOLOGY & TEST SERVICE 2024

SAUTER Pictograms



Conformity assessment

Models with type approval

DAkkS calibration

The time required for

DAkkS calibration is shown

Factory calibration (ISO)

The time required for factory

calibration is specified in

Package shipment

The time required for

internal shipping prepara-

tions is shown in days in

the pictogram

the pictogram

the pictogram

Pallet shipment

The time required for

internal shipping prepara-

tions is shown in days in

in days in the pictogram

for construction of verifiable

M

DAkkS

+3 DAYS

ISO

1 DAY

systems

possible



Adjusting program (CAL) For quick setting of the

instrument's accuracy. External adjusting weight required



Calibration block

Standard for adjusting or correcting the measuring



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 de-centralised 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



WIFI 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



Analogue 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. 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



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

Plug-in power supply



Integrated power supply unit

Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or US 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

