# 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 KERN 289 range can display the results in Newtons instead of in grammes, specifically for measuring tensile forces
- High quality:
- zero-play spring bearing with highly-precise adjustment
- fatigue-proof 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
- You will find a wide range of further spring balances with gramme division or Newton division for tension and pressure measurements and specific accessories at www.sauter.eu and page 26 onwards

#### Technical data

- $\bullet$  Accuracy of:  $\pm$  0,3 % of the load
- Tare range: 20 % of [Max]

### Accessories

- Bracket for spring balances of 10-1000 g/ 0,1-10 N, KERN 287-A01
- Hook for spring balances 10-1000 g/ 0,1-10 N, KERN 287-A02
- Bird weighing cone for spring balances (50 500 g) KERN 281-891

Model	Division	Measuring range	Load support	Option ISO Calibration Certificate
				ISO
SAUTER	Ν	Ν		KERN
289-100	0,01	1	hook	961-161
289-102	0,05	5	hook	961-161
289-104	0,1	10	hook	961-161

Model	Division	Weighing range	Load support	Option ISO Calibration Certificate
				ISO
SAUTER	g	g		KERN
287-100	0,1	10	clip	961-100
287-102	0,2	20	clip	961-100
287-104	0,5	50	clip	961-100
287-106	1	100	clip	961-100
287-108	5	500	clip	961-100
287-110	10	1000	clip	961-100



# **SAUTER Pictograms:**



Adjusting program (CAL): For quick setting of the balance'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.



of measurements.

Scan mode:



Push and Pull: the measuring device can capture tension and compression forces.

continuous capture and display



# 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.

of printer and PC.



Data interface RS-232 bidirectional, for connection



Data interface USB: To connect the balance to a printer, PC or other peripheral devices.



#### Data interface Infrared: To transfer data from the balance to a

printer, PC or other peripheral devices.



(optocoupler, digital I/O): SWITCH to connect relays, signal lamps, valves, etc.

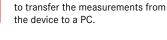


#### Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements.



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

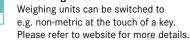






GLP/ISO record keeping: of measurements with date, time and

# Measuring units:





Measuring with tolerance range: Upper and lower limiting can be programmed individually, e.g. for sorting and dosing.





# 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.



230 V

# Power supply:

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



The mechanical movement is carried out by a motorised drive.



the total length of travel can be covered by a single lever movement.



# **ISO Calibration:**

The time required for ISO calibration is shown in days 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.



# The warranty period is shown in the pictogram.

Your SAUTER specialist dealer:







a printer can be connected to the device to print out the measurements.

Printer:

GLP PROTOCOL

S UNIT





ZERO:

Resets the display to "0".







VARRANTY



serial number. Only with SAUTER printers.

MOTOR

Motorised drive:

Fast-Move: