



KERN 289



KERN 287

NEW



## 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](http://www.sauter.eu) and page 26 onwards

### Technical data

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

### Accessories































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

STANDARD	OPTION
1 DAY	2 YEARS WARRANTY
	ISO +4 DAYS

Model	Division	Measuring range	Load support	Option ISO Calibration Certificate	
				ISO	KERN
SAUTER	N	N			
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	KERN
SAUTER	g	g			
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	

Datasheet\_287\_289\_V1

	<b>Adjusting program (CAL):</b> For quick setting of the balance's accuracy. External adjusting weight required.		<b>Data interface Infrared:</b> To transfer data from the balance to a printer, PC or other peripheral devices.		<b>Battery operation:</b> Ready for battery operation. The battery type is specified for each device.
	<b>Calibration block:</b> standard for adjusting or correcting the measuring device.		<b>Control outputs (optocoupler, digital I/O):</b> to connect relays, signal lamps, valves, etc.		<b>Rechargeable battery pack:</b> rechargeable set.
	<b>Peak hold function:</b> capturing a peak value within a measuring process.		<b>Analogue interface:</b> to connect a suitable peripheral device for analogue processing of the measurements.		<b>Mains adapter:</b> 230V/50Hz in standard version for EU. On request GB, AUS or USA version available.
	<b>Scan mode:</b> continuous capture and display of measurements.		<b>Statistics:</b> using the saved values, the device calculates statistical data, such as average value, standard deviation etc.		<b>Power supply:</b> Integrated, 230V/50Hz in EU. More standards e.g. GB, AUS or USA on request.
	<b>Push and Pull:</b> the measuring device can capture tension and compression forces.		<b>PC Software:</b> to transfer the measurements from the device to a PC.		<b>Motorised drive:</b> The mechanical movement is carried out by a motorised drive.
	<b>Length measurement:</b> captures the geometric dimensions of a test object or the movement during a test process.		<b>Printer:</b> a printer can be connected to the device to print out the measurements.		<b>Fast-Move:</b> the total length of travel can be covered by a single lever movement.
	<b>Focus function:</b> increases the measuring accuracy of a device within a defined measuring range.		<b>GLP/ISO record keeping:</b> of measurements with date, time and serial number. Only with SAUTER printers.		<b>ISO Calibration:</b> The time required for ISO calibration is shown in days in the pictogram.
	<b>Internal memory:</b> to save measurements in the device memory.		<b>Measuring units:</b> Weighing units can be switched to e.g. non-metric at the touch of a key. Please refer to website for more details.		<b>Package shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram.
	<b>Data interface RS-232:</b> bidirectional, for connection of printer and PC.		<b>Measuring with tolerance range:</b> Upper and lower limiting can be programmed individually, e.g. for sorting and dosing.		<b>Pallet shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram.
	<b>Data interface USB:</b> To connect the balance to a printer, PC or other peripheral devices.		<b>ZERO:</b> Resets the display to "0".		<b>Warranty:</b> The warranty period is shown in the pictogram.

**Your SAUTER specialist dealer:**