



Bird Spikes



Digital Counter

Rain Gauge

The Rain Gauge is part of the SEVEN meteorological sensor range, which includes professional and intelligent measuring sensors with a digital interface for environmental and industrial applications such as PV plants, meteorology, agriculture, forestry and field monitoring.

It is designed to accurately measure the rainfall with a collection area of 200 cm² using the reed relay with the principle of tipping buckets.

The measured rainfall data is transmitted to the data loggers and receiver units as pulse signals or via a 3-wire RS485 bus with Modbus RTU protocol, depending on the input requirements.

SEVEN products use reliable and high-quality components to deliver accurate meteorological data for environmental and industrial applications.

The digital counter and bird spikes are optional Rain Gauge accessories, available for specific applications or upon customer request.

Benefits and Features

- High Accuracy
- Fast & Easy Installation
- Wide Range of Applications
- Built-in Spirit Level
- Low Power Consumption
- Free Software Update
- SunSpec Compliant (for Modbus RTU)
- SEVEN Remote Setup Service
- SEVEN Customer Support
- 2 Year Warranty

Models

3S-RG-PLS

The 3S-RG-PLS is a cost-effective Rain Gauge with reed relay output, offering the best price-to-performance ratio for standard requirements in industrial and environmental applications such as PV plants, meteorology, agriculture, forestry and field monitoring. The housing is made of UV-resistant plexiglass, making it highly durable and resilient. It can be connected to the SEVEN Compact Weather Station, as well as dataloggers and other receiver units.



3S-RG-MB

The 3S-RG-MB is a professional and intelligent measuring device with a digital interface, designed for demanding industrial and environmental applications such as PV plants. Measured data is transmitted to monitoring instruments, dataloggers and other receiver units via the RS485 serial interface with Modbus RTU protocol.



Accessories

Digital Counter

The digital counter lets you monitor the total pulse count and manually calculate rainfall without the need for an external datalogger.



Bird Spikes

This accessory physically prevents birds from perching on the sensor, minimizing contamination and extending the service life of the device. It reduces maintenance intervals and helps lower operational costs.



Technical Specifications

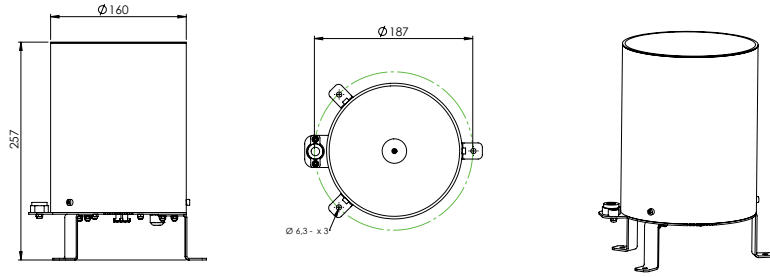
	3S-RG-PLS	3S-RG-MB
Sensor Type	Tipping Bucket Rain Gauge	
Measurement Range	0 – 600 mm/h (under non-freezing, non-snow conditions)	
Accuracy**	±2% (0 mm/h - 30 mm/h) ±3% (30 mm/h - 100 mm/h) ±5% (100 mm/h - 600 mm/h)	
Resolution	0,2 mm	
Collection Area	200 cm²	
Data Output	Reed Relay	RS485 up to 38400 Baud
Communication Protocol	-	Modbus RTU
Power Supply	-	12 to 30 V DC
Power Consumption	-	35 mA @ 24 V DC
Cable Length & Features	3 m LIYY2 2x0,5 mm² Cable, UV and Weather Resistant	1 m 3x2x0,22 mm² - LI2Y(st)C11Y Cable, UV and Weather Resistant
Operating Temperature Range	0°C ... +85°C	
Dimensions	Ø160 x 257 mm	
Converter Box Dimensions	-	70,2 x 82 x 55 mm (W x L x H)
Weight	1,05 kg	1,1 kg
IP Rating	IP 65	
Housing Material	Plexiglass	
Converter Box Material	-	ABS*
Origin	TÜRKİYE	

*Since this product contains plastic parts, color changes may occur when exposed to direct sunlight.

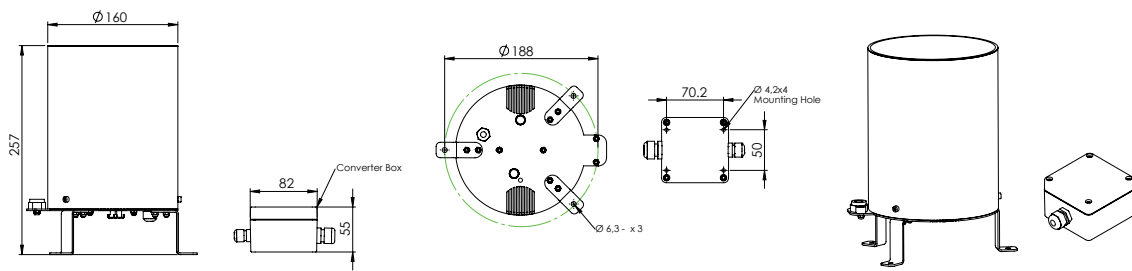
**For projects requiring higher accuracy, our premium upper-tier .model is available

Technical Drawings

3S-RG-PLS Technical Drawings



3S-RG-MB Technical Drawings



Note: All dimensions are in mm.

***SEVEN has the right to make modifications on this documentation without notice.