



## S-RGF-M002 Sensor

### Davis 0.2 mm Rain Gauge Smart Sensor

The Davis® Rain Gauge Smart Sensors features the new AeroCone® design, for better measurement accuracy in high-wind conditions. This gauge is made from UV-stabilized ABS plastic to provide a cost-effective sensor for rainfall measurement, and is plug-and-play compatible with all HOBO weather stations.

Also available in a wireless model for use with the HOBOnet Field Monitoring System.

#### Supported Measurements:

Rainfall

#### Key Advantages:

- Streamlined design reduces the amount of missed rain capture in windy conditions, resulting in more accurate rainfall data
- Improved debris screen locks in place to ensure it remains in place during high winds
- 16.5 cm (6.5") collector opening meets World Meteorological Organization (WMO) guidelines



## S-RGF-M002 Sensor Specifications

Measurement Range	0 to 10.2 cm (0 to 4 in.) per hour, maximum 4,000 tips per logging interval
Accuracy	±4.0%, ±1 rainfall count between 0.2 and 50.0 mm (0.01 and 2.0 in.) per hour; ±5.0%, ±1 rainfall count between 50.0 and 100.0 mm (2.0 and 4.0 in.) per hour
Resolution	0.01 in. (S-RGC-M002) or 0.2 mm (S-RGF-M002)
Calibration	Requires annual calibration; can be field calibrated
Operating Temperature Range	0° to 50°C (32° to 122°F), survival -40° to 75°C (-40° to 167°F)
Environmental Rating	Weatherproof
Housing	UV-stabilized ABS plastic
Mechanism	Tipping bucket with magnetic reed switch pivots on metal shaft
Dimensions	16.5 cm opening diameter (6.5 in.) x 24 cm (9.5 in.) high; 214 cm <sup>2</sup> (33.2 in. <sup>2</sup> ) collection area
Weight	1.2 kg (2.7 lbs)
Bits per Sample	12
Number of Data Channels*	1
Measurement Averaging	No
Cable Length Available	2 m (6.6 ft)
Length of Smart Sensor Network Cable*	0.5 m (1.6 ft)

The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).