



HOBO RG3 Rain Gauge Data Logger (Inches)

Product Images



Short Description

The RG3 Data Logging Rain Gauge integrates a HOBO Pendant Event data logger into a tipping-bucket rain gauge. Records rainfall with time and date for detailed analysis.

Also records temperature when used with an optional solar radiation shield.

A HOBO base station or shuttle is required to offload data.

Description

The RG3 Data Logging Rain Gauge integrates a HOBO Pendant Event data logger into a tipping-bucket rain gauge. Records rainfall in inches with time and date for detailed analysis. Also logs temperature.

There are two ways to launch the data logger and offload the data (see Connectivity Options below):

- Using an Optic Base Station with USB interface, and HOBOWare (FREE) (Windows/Mac) software.
- Via a Shuttle and HOBOWare Pro software. The advantage of this method is that you can launch and offload multiple pendants using the shuttle without the need to take your laptop/PC to each pendant. This is particularly useful for field research.

Country of Manufacture	United States
Explanation	<p>Rain Gauge Maximum rainfall rate: 12.7 cm (5 in.) per hour Calibration accuracy: ±1.0% (up to 1 in./hour for the RG3 or 20 mm/hour for the RG3-M) Resolution: 0.01 in. (RG3) or 0.2 mm (RG3-M) Calibration: Requires annual calibration: can be field calibrated or returned to the factory for re-calibration Operating temperature range: 0° to +50°C (+32° to +122°F) Storage temperature range: -20° to +70°C (-4° to +158°F) Environmental rating: Weatherproof Housing: 15.24cm (6-in.) aluminum bucket Tipping bucket mechanism: Stainless steel shaft with brass bearings Dimensions: 25.72 cm height x 15.24 cm diameter (10.125 x 6 in.); 15.39 cm (6.06 in.) receiving orifice Weight: 1.2 Kg (2.5 lbs) Part numbers: RG3 (0.01 in. per tip) ; RG3-M (0.2 mm per tip) The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).</p> <p>Logger Time stamp: Resolution 1.0 second Time accuracy: ± 1 minute per month at 25°C (77°F), see Plot B on page 10. Operating range: -20° to 70°C (-4° to 158°F) Environmental rating (for logger used outside of rain gauge): Tested to NEMA 6 and IP67; suitable for deployment outdoors NIST traceable certification: Available for temperature only at additional charge; temperature range -20° to 70°C (-4° to 158°F) Battery: CR-2032 3V lithium battery; 1 year typical use Memory: 64K bytes – 16K to 23K tips when recording rain only; 25K to 30K data points when recording rain and temperature Materials: Polypropylene case; stainless steel screws; Buna-N o-ring; PVC cable insulation The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).</p> <p>Temperature Measurement Measurement range: -20° to 70°C (-4° to 158°F) Accuracy: ± 0.47°C at 25°C (± 0.85°F at 77°F). A solar radiation shield is required for accurate temperature measurements in sunlight. Resolution: 0.10°C at 25°C (0.18°F at 77°F), see Plot A on page 10. Drift: Less than 0.1°C/year (0.2°F/year) Response time: Airflow of 1 m/s (2.2 mph): 10 minutes, typical to 90%</p>

Contents	<ul style="list-style-type: none"> • Tipping-bucket rainfall collector • HOBO Pendant Event Logger • Mounting accessories: two hose clamps, three screws
Ideal For	Professional, Agronomy
Brand	Onset HOBO
Channel(s)	2
Onset Product Series	RG3
Typical applications	Environmental (Outdoor), Field Research, Weather Monitoring
Measurements	Rainfall

Additional Options

Connectivity Options	HOBO Universal Optic USB Base Station Base-U-4 (includes Couplers)
	Waterproof Optic Data Shuttle U-DTW-1 (requires HOBOWare Pro)
Temperature Calibration Certificate	2 Point Temperature Calibration (0°C / 60°C)
	2 Point Temperature Calibration (please specify temperature points)
	1 Point Temperature Calibration (0°C)
HOBOWare Pro Software Options	HOBOWare Pro on USB Drive (USB cable included)
	HOBOWare Pro on CD (USB Cable Included)
	HOBOWare Pro - Download Only (USB cable NOT included)
USB Cable (included with HOBOWare Pro on USB Drive & CD)	HOBO U-Series to PC USB Cable