



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. Capacity: 16,000 events.

Self-emptying for continuous rainfall monitoring.

Blinking LED inside logger case confirms operation.

EEPROM retains memory if battery fails.

Size: 165 mm diam. x 254 mm high. Weight: 1 kg

There are 2 ways to launch the data logger and offload the data:

- Using an Optic Base Station with USB interface, and free HOBOWare (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.

Logs:

- Rainfall
- Temperature

Part Nos:

RG3 (inches)

IMPORTANT: This HOBO data logger needs an Optic Base Station with HOBOWare (FREE) or a Shuttle with HOBOWare Pro. These are available separately.

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