

RG3 • RG3-M

HOBOb Rain Gauge Data Logger

US or Metric (includes data logger)

A battery-powered rainfall data collection and recording system that includes a HOBOb Pendant Event data logger integrated into a tipping-bucket rain gauge.

Important Information

Requires HOBObware software (USB interface cable included w/CD purchase) and a communications device. See compatible items below.



Compatible with
HOBObware Software



Supported Measurements

Rainfall

Features

- High quality tipping-bucket rain gauge includes a HOBOb Pendant Event data logger. Base station or shuttle is required
- Time and date stamp is stored for each tip - provides detail needed to determine rainfall rates and duration
- Reliable, field-proven rain gauge
- Compatible with HOBObware and HOBObware Pro software for logger setup, graphing, and analysis
- Also records temperature when used with an optional solar radiation shield

What's in the box

• Tipping bucket rainfall collector

Contact Us

Sales (8am to 5pm ET, Monday through Friday)

- Email sales@onsetcomp.com
- Call 1-508-759-9500
- In U.S. toll free 1-800-564-4377
- Fax 1-508-759-9100

Technical Support (8am to 5pm ET, Monday through Friday)

- Contact Product Support www.onsetcomp.com/support/contact
- Call 1-508-759-9500
- In U.S. toll free 1-877-564-4377

Onset Computer Corporation
470 MacArthur Boulevard
Bourne, MA 02532

HOBO Rain Gauge Data Logger (RG3) Specifications

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)

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

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)
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%

