



- High quality tipping-bucket rain gauge
- HOBO Pendant Event data logger included
- Time and date stamp is stored for each tip providing detail needed to determine rainfall rates and duration
- Also records temperature when used with an optional solar radiation shield
- Base Station or Shuttle, and HOBOWare software are required



RG3 and RG3-M Data Logging Rain Gauges

The Data Logging Rain Gauge is a battery-powered rainfall data collection and recording system which includes a HOBO® Pendant Event data logger integrated into a tipping-bucket rain gauge.

Two models calibrated in millimetres, or inches, automatically record up to 3200 mm (RG3-M) or 160 inches (RG3) of rainfall data that can be used to determine rainfall rates, times and duration.

The Rain Gauges also record temperature when used with an optional solar radiation shield (RS1).

A Base Station (BASE-U-1) and HOBOWare software are required for launch and download, a Shuttle can be used for download or relaunch.

Logger

Time stamp: Resolution 1.0 second
 Time accuracy: ± 1 minute per month at 25°C
 Operating range: -20° to 70°C
 Temperature range -20° to 70°C
 Battery: CR-2032 3V lithium battery; 1 year typical use
 Memory: 64K bytes – 16K to 23K when recording events only; 25K to 30K data points when recording events and temperature
 Materials: Polypropylene case; stainless steel screws; Buna-N o-ring; PVC cable insulation

Temperature Measurement

Measurement range: -20° to 70°C
 Accuracy: $\pm 0.47^\circ\text{C}$ at 25°C
 A solar radiation shield is required for accurate temperature measurements in sunlight.
 Resolution: 0.10°C at 25°C
 Drift: Less than $0.1^\circ\text{C}/\text{year}$
 Response time: Airflow of 1 m/s (2.2 mph): 10 minutes, typical to 90%

RG3 and RG3-M Rain Gauges

- Maximum Rainfall Rate: 127 cm (5 in.) per hour
- Calibration Accuracy: $\pm 1.0\%$ (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
- Storage Temperature Range: -20° to +70°C
- Environmental Rating: Weatherproof
- Housing: 15.24cm aluminum bucket
- Tipping Bucket Mechanism: Stainless steel shaft with brass bearings
- Dimensions: 25.72 cm height x 15.24 cm diameter, 15.39 cm receiving orifice
- Weight: 1.2 Kg

Part Numbers:

RG3 Rain Gauge (0.01 in. per tip)

RG3-M (0.2 mm per tip)

