**HOBO® RG3 Data Logger**

**Rain Gauge Data Logger**

Record up to 160 in. of rainfall at rates up to 12.7 cm (5 in.) per hour. The Data Logging Rain Gauge system is battery powered and includes a HOBO® Pendant Event data logger with a tipping-bucket rain gauge. Easily collect rainfall, time, and duration data, as well as temperature when used with an optional solar radiation shield (RS1 Solar Radiation Shield, or M-RSA). Base station or shuttle is required.

**Key Advantages:**
- High quality tipping-bucket rain gauge includes a HOBO 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 HOBOware and HOBOware Pro software for logger setup, graphing and analysis.
- Also records temperature when used with an optional solar radiation shield.
**HOBO RG3 Data Logger 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)

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

### 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

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### 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%
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 6pm 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