



### RG3 Data Logging Rain Gauge

0.2 mm RG3-M  
0.01 in RG3  
15.2 cm diameter  
x 25.7 cm high (6 x 10 in)  
1.2 kg (2.5 lbs)

#### Rainfall

Range: Up to 320 cm (RG3-M), up to 160 in (RG3)  
Resolution: 0.2 mm (RG3-M), 0.01 in (RG3)  
Time stamp  
Resolution: 1 second  
Calibration  
Accuracy:  $\pm 1.0\%$  (up to 20 mm/hr [RG3-M], 1 in/hr [RG3])  
Maximum rainfall rate: 12.7 cm (5 in.) per hour

#### Temperature

Range:  $-20^{\circ}$  to  $70^{\circ}\text{C}$  ( $-4^{\circ}$  to  $158^{\circ}\text{F}$ )  
Accuracy:  $\pm 0.47^{\circ}$  @  $25^{\circ}\text{C}$  ( $\pm 0.85^{\circ}$  @  $77^{\circ}\text{F}$ );  
a solar radiation shield is required for temperature measurements  
Resolution:  $0.10^{\circ}$  @  $25^{\circ}\text{C}$  ( $0.18^{\circ}$  @  $77^{\circ}\text{F}$ )  
Sample rate: 1 second to 18 hours, user-selectable

#### Memory

16,000 to 23,000 tips when recording rainfall only  
25,000 to 30,000 total measurements when recording rainfall and temperature



### Mounting the Rain Gauge

The HOBO Rain Gauge has provisions for mounting two ways: surface mounting (Figure 1) and pole mounting (Figure 2). Surface mounting is recommended where possible. Note: Figure 2 has logger deployed outside of rain gauge housing, mounted inside an optional solar radiation shield.

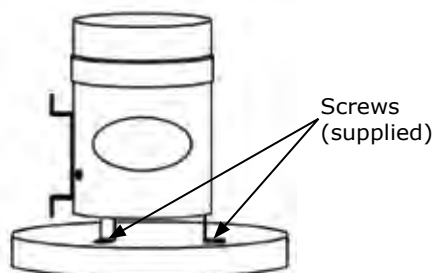


Figure 1: Surface mounting

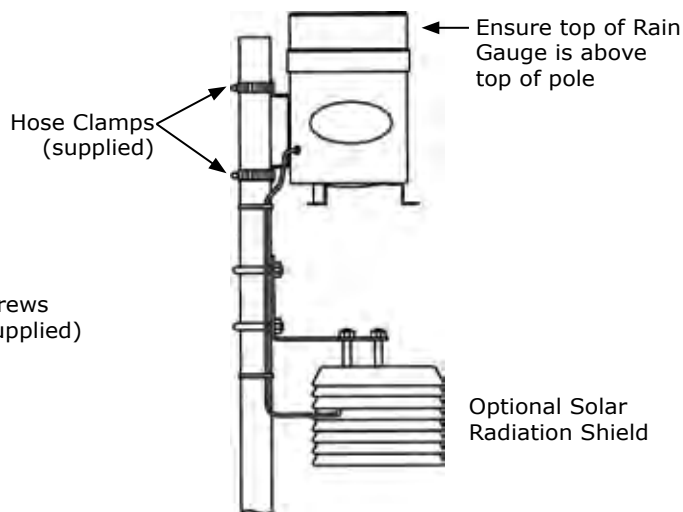


Figure 2: Mast mounting

## General Mounting Considerations

- The HOBO Rain Gauge housing **MUST** be mounted in a LEVEL position.
- A clear and unobstructed mounting location is necessary to obtain accurate rainfall readings. Tall objects can interfere with accurate rain measurements. It is recommended that you place the rain gauge away from the obstruction by a distance greater than three times the height of the obstruction. If that is not possible, raise the rain gauge as high as possible to avoid shedding.
- Avoid splashing and puddles. Be sure the gauge is high enough above any surface that rain will not splash into the top of the collector.
- Vibration can significantly degrade accuracy of the tipping bucket mechanism. In windy locations make sure that the bucket will be vibration-free.
- For maximum sensitivity in low-moisture environments you can remove the collector screen. This eliminates water retention on the screen which could evaporate before being measured. The tradeoff is that without the screen, debris can get into the funnel and clog the orifice.

Complete system requires logger, software and base station.

### Ordering Information

#### Data Logger

HOBO Rain Gauge	RG3 (0.01 in)
	RG3-M (0.2 mm)

#### Software

HOBOWare Pro Software (Windows/Mac)	BHW-PRO-CD
Pendant Base Station (required)	BASE-U-1

#### Communications and Accessories

HOBO U-Shuttle (requires Base Station)*	U-DT-1
HOBO Waterproof Shuttle with Couplers**	U-DTW-1
Solar Radiation Shield	M-RSA

#### Tripod/Mast Accessories

1.5 Meter Mast	M-MPB
2m Tripod with Mast	M-TPB
1/4 in Stake Kit	M-SKB
Guy Wire Kit	M-GWA
1/2 in Stake Kit	M-SKA

\* Requires HOBOWare Pro software. See page 52 for details.  
HOBOWare includes USB interface cable

\*\* U-DTW-1 Data Shuttle can be used in place of base station (BASE-U-1)(See pages 70-71 for details).

HOBOWare software is available for download via the web. Visit [onsetcomp.com](http://onsetcomp.com) for details.