

SPECIFICATIONS

Tipping Bucket Rain Gauge



This tipping bucket rain gauge provides inexpensive, accurate rainfall measurement. Precipitation is collected in the funnel and measured by the calibrated tipping bucket.

For each 0.254 mm (0.01 inch) of precipitation, the bucket tips, emptying the bucket and operating the output switch.

Mounts utilizing three mounting legs with 6.3 mm (0.025 inch) diameter holes on a 241 mm (9.5 inches) diameter circle. Includes 7 m (24 feet) cable.

FEATURES

- Inexpensive, accurate rainfall measurement
- Simple, rugged design
- Sealed magnetic reed output switch

SPECIFICATIONS

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|---------------|--------------------------|---|
| Description | Sensor type | tipping bucket rain gauge |
| | Applications | precipitation measurement |
| | Sensor range | unlimited- tipping action dumps precipitation from bucket |
| | Instrument compatibility | <ul style="list-style-type: none">• NRG Symphonie equipped with a Rain Gauge SCM Item 3149• any 9300 series logger equipped with a Rain-40-40 SIM card |
| Output signal | Signal type | switch closure (momentary single pole, normally open (SPNO) contact), typical closure time is 0.1 second |
| | Transfer function | 0.254 mm (0.01 inches) of rain each switch closure |
| | Accuracy | +/- 2%, up to 50.8 mm (2 inches) per hour |
| | Calibration | factory calibrated |



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110 Commerce Street • Hinesburg • VT 05461 USA • TEL (802) 482-2255 • FAX (802) 482-2272 • EMAIL sales@nrgsystems.com

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| | Resolution | 0.254 mm (0.01 inches) of rain |
| | Drift | <ul style="list-style-type: none"> requires regular cleaning to ensure proper operation recalibration is only necessary if the sensor is physically damaged |
| Power requirements | Supply voltage | 5 V DC to 12 V DC typical, 175 V DC maximum |
| | Supply current | dry contact, 0.25 A maximum |
| Installation | Mounting | <ul style="list-style-type: none"> three mounting legs with bolt holes holes are 6.3 mm (0.25 inches) diameter on a 241 mm (9.5 inches) diameter circle |
| Environmental | Operating temperature range | 0 °C to 45 °C |
| Physical | Connections | 2 conductor cable from switch (red wire, black wire) |
| | Cable length | 7 m (24 feet) |
| | Dimensions | <ul style="list-style-type: none"> 360 mm (15 inches) overall assembly height 203 mm (8 inches) catchment area |
| Materials | Enclosure | anodized aluminum and thermoplastic, stainless steel fasteners |
| Shipping | Shipping weight (pounds) | 5.3 |
| | Shipping volume (cubic feet) | 1.36 |



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