

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

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 PLUS Logger equipped with a Rain Gauge SCM Item 3149• NRG Symphonie Logger equipped with a Rain Gauge SCM Item 3149
Output signal	Signal type	switch closure (momentary single pole, normally open)

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		(SPNO) contact), typical closure time is 0.1 second
	Transfer function	0.254 mm (0.01 inches) of rain per switch closure
	Accuracy	+/- 2%, up to 50.8 mm (2 inches) per hour
	Calibration	factory calibrated
	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	<ul style="list-style-type: none"> • Excitation Supply 5 V DC to 12 V DC typical • Overvoltage protection clamps at 27 V DC
	Supply current	dry contact, 0.5 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) diameter catchment area
Materials	Enclosure	anodized and powder-coated aluminum, thermoplastic, stainless steel fasteners
Shipping	Shipping weight	5.3
	Shipping volume	1.36

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