



# Tipping Bucket Rain Gauge



Aerial view of Tipping Bucket Rain Gauge showing filter screen and funnel.

The Tipping Bucket Rain Gauge (Model TR-5251) collects rainfall in an accurate and economical method. The rugged and reliable exterior of the unit allows it to be installed in the harshest of weather conditions and adverse climates. Being a completely automatic system, the unit is extremely easy to implement and use.

Methods of collecting rainfall data is simple as connecting the Tipping Bucket Rain Gauge to a data logger, event logger or a digital display and take the readings.

The rainfall sensor is dynamically calibrated in the factory and should not require re-calibration upon installation. Field maintenance should include occasional cleaning of the collector screen and inspection of the internal mechanism to make sure it is free from insects and debris. In some applications, user may need to occasionally verify and document sensor accuracy.

## specifications

ITEM	DESCRIPTION
Resolution	0.1 mm (0.01")
Accuracy	1% at 25.4 mm/hr using dynamic calibration method. 1% at 1"/hour using dynamic calibration method.
Switch Type	Magnetic Reed Switch
Switch Closure	135ms average
Switch Rating	Maximum of 30 VDC @ 2A, 115 VAC @ 1A
Temperature	1°C to 60°C (+32°F to + 122°F)
Humidity	0 - 100%
Height (with Mounting Feet)	25.4 cm (10.0") (TR-5251) 30.48 cm (12.00") (TR-525 M) 28.58 cm (11.25") (TR-525 USW)
Weight	2.5 lbs. (1.13 kg)
Cable	60 ft, 2-conductor
Receiving Orifice Diameter	16.8 cm (6.60") (TR-525I - Imperial) 24.5 cm (9.66") (TR-525M - Metric) 20.3 cm (8.00") (TR-525 USW - Imperial)
Funnel Depth	13.5 cm (5.3") (TR-525I) 18.3 cm (7.2") (TR-525 M) 16.3 cm (6.4") (TR-525 USW)
Tipping Bucket Material	Plastic
Collector Funnel Material	Aluminum with gold anodized finish.
Housing Material	Aluminum with white baked enamel finish.



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## applications

Accurately collect rainfall.

## features

Exterior constructed of aluminum to withstand harsh weather conditions and climates.

Easily connects to data logger, event logger, or digital display.

Available in English (.01"/tip) or metric (.1mm/tip) measure.

Optional 8-inch collector is also available.

Completely automatic.

Dependable reed switch.

Debris screen prevents leaves and debris from entering unit.

Can easily convert from English to metric measure by simply changing the collector funnel.

The collector's knife-edge optimizes rainfall catch.

Hardened stainless steel pivot and jewel tipping assembly eliminates the need for bearings.

Three-year warranty.