

Precipitation

Quality Tipping Bucket Rain Gauges

The Series 2500 tipping bucket rain gauge is a dependable instrument used for measuring precipitation. The gauge measures snowfall when equipped with the optional heater.

Rainfall entering the 8-inch or 12-inch funnel collector is directed to the tipping bucket assembly. When an incremental amount of precipitation has been collected, the bucket assembly tips and activates a magnetic reed switch. The sample is discharged through the base of the gauge. A momentary electrical contact closure actuates for each increment of rainfall. This contact closure can be used to operate an event recorder or other data acquisition system.

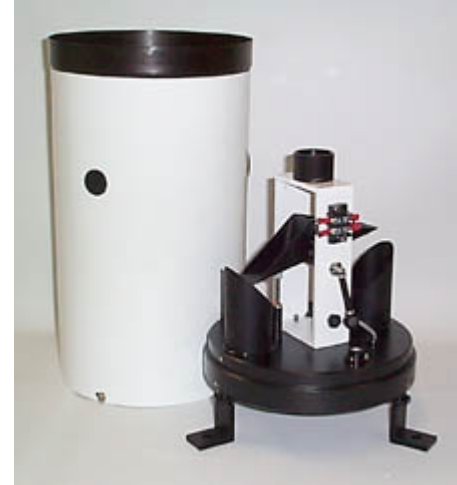
The standard gauge is made of anodized and powder coated aluminum. A bubble level is located on the base for correct positioning. The funnel has a screen to prevent debris from entering the gauge. Mounting brackets with leveling adjustments are included.

The Model 2500 rain gauge can be ordered with a 24 VDC or 115/220 VAC electric heater for measurements of snow and rain. The heating components include a 400-watt heater installed in the base, insulation in the outer tube, and a freeze-point thermostat control at the funnel. Snow falling into the funnel is melted and the resulting water drains into the tipping bucket assembly. The heater option includes 25 ft of cable.

The Model 2501 was designed for the USA National Weather Service as a reliable, low-cost gauge. Its simplicity in design assures trouble-free operation, yet provides accurate rainfall measurements. The tipping bucket mechanism activates a sealed reed switch that produces a contact closure. The gauge has an 8-inch orifice and is made from aluminum. Enclosure surfaces are powder-coated gloss white. The funnel has a screen to prevent debris from entering the gauge.

Ordering Information

2500	Rain Gauge with 8" orifice, 0.01" per tip
2500-12	Rain Gauge with 12" orifice, 0.01" per tip
2500E	Rain Gauge with 8" orifice, 0.01" per tip with heater
2500E-12	Rain Gauge with 12" orifice, 0.01" per tip with heater
2500M	Rain Gauge with 8" orifice, 1 mm per tip
2500M-12.25	Rain Gauge, with 12" orifice, 0.25 mm per tip
2500M.25	Rain Gauge, with 8" orifice, 0.25 mm per tip
2500M.5	Rain Gauge, with 8" orifice, 0.5 mm per tip
2501	Rain Gauge with 8" orifice, 0.01" per tip
2501M	Rain Gauge with 8" orifice, 1 mm per tip
2501M2.5	Rain Gauge, with 8" orifice, 0.25mm per tip



Technical Specifications

Capacity:	Unlimited
Orifice:	8 inch (20 cm) or 12 inch (30 cm)
Calibration:	0.01", 0.2 mm, 0.25 mm, or 1 mm (others on request)
Accuracy:	
2500	±1% for < 2"/hr (75 mm/hr)
2501	±2% for < 2"/hr (75 mm/hr)
Output:	100 msec switch closure
Contact rating:	3 watts, 0.25 amps, 175 VDC
Mounting:	3 legs, ¼ inch diameter bolt holes on 9 ½"
Dimensions:	
2500	8 inch x 17 inch
2500-12	12 inch x 20 inch
2501	8 inch x 15 inch
Weight:	
2500	7 lbs
2500-12	14 lbs
2501	6 lbs

Note: All gauges include mounting brackets and 25 ft. signal cable.