



Model 6012 Tipping Bucket Rain Gauge

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Tipping Bucket Rain Gauge

The Model 6012 Tipping Bucket Rain Gauge is a freestanding receptacle for measuring precipitation. It contains an open top, which allows precipitation to fall into the upper portion, called the collector. The collector funnel is made of gold-anodized aluminum. Collected water is funneled to a tipping bucket, which fills up and causes a momentary closure of a magnetic switch once the tipping bucket fills to the point where it tips over. This empties the bucket in preparation for additional measurements. The discharged water passes out of the rain gauge with no need for emptying.

The rain gauge may be connected to an event counter on a data logger or to a display such as offered by an AWOS to show and log accumulated precipitation.

The aluminum housing is finished with a white powder-coat to withstand years of exposure to the environment.



Features

- Interfaces to virtually all data acquisition systems
- Knife-edge collector optimizes rainfall catch
- Splash-out protection and screen reduce wind errors
- Easy installation and maintenance
- Integrated bubble level
- Lightweight aluminum exterior with anodized aluminum collector for weather resistance
- Electrically heated Model 6022 facilitates use in areas where snow or freezing rain may occur

SENSORS

SPECIFICATIONS

Parameter	6012-A
Sensor Type	Tipping Bucket
Switch	Momentary potted reed switch
Output	135 ms switch closure
Sensitivity	1 tip per 0.01"
Resolution	0.01" (0.25 mm)
Calibrated Accuracy	±1% (0–2"/h)
Precipitation Measurement Rate	0–700 mm/h (0–27"/h)
Collector Orifice	6.060" (154 mm)
Height	10.25" (260 mm)
<i>Environmental</i>	
Operating Temperature	-54 to +70°C (-65 to +158°F)
Storage Temperature	-40 to +85°C (-40 to +185°F)
Relative Humidity	0–100%, noncondensing

ORDERING INFORMATION

Part Number	Description
6012-A	Tipping Bucket Rain Gauge
60103	Rain Gauge Calibrator

DIMENSIONS & WEIGHTS

Dimensions (without feet or pole mounting arm)	260 mm H x 163 mm D (10.25" H x 6.4"D)
Product Weight	2.3 kg (5.0 lb)

* on side of rain gauge



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