

Tipping Bucket Rain Gauge with Siphon

5600-0625



Overview

Sutron's 5600-0625 Tipping Bucket Rain Gauge with Siphon is the recognized standard for measuring rainfall & precipitation in remote, unattended locations. Its primary feature is a 5 inch (127 mm), high-extended funnel catch to eliminate out splash loss that occurs with machined-rim gauges during heavy rainfall. The extended catch also decreases splash loss due to moderate or high cross winds. This new design closely resembles NOAA's T-200B all-weather precipitation gauge's catchment & data acquisition features.

The unit consists of a collector funnel, a stainless steel filter screen and a tipping bucket mechanism. The bucket tips when precipitation of 0.1 mm, 0.2 mm, 0.5 mm or 0.01 inch has been collected. Each tip, marked by a reed switch closure, can be recorded by a datalogger/DCP & transmitted by satellite, cellular or radio.

The Tipping Bucket performs a wide range of rainfall measurements. The receiver (orifice) is 8.08" (205 mm) in diameter. The Tipping Bucket measures each 0.1 mm, 0.2, 0.5 mm or 0.01 inch of precipitation. It includes a siphon that allows rain to flow at a steady rate to the tipping bucket mechanism regardless of rainfall intensity. Due to its siphon design, typical heavy rainfall bucket errors become constant thus allowing the calibration process to minimize them. This built-in compensation process results in more accurate measurements for a range of 0 - 27" (700 mm) per hour enabling the 5600-0625 to record high accuracies over a broad range of rainfall intensities. The siphon can be dismantled for routine servicing.

Features

- ▶ World Standard 205 mm, 8.08 inch catch
- ▶ Bucket Sizes 0.1 mm, 0.2 mm, 0.5 mm, or 0.01 inch
- ▶ Extended catch for high intensity accuracy
- ▶ Integrated siphon mechanism
- ▶ Bubble level in base
- ▶ Single reed switch output signal



Pole-Mounted Tipping Bucket Rainfall Station

SPECIFICATIONS	
<i>Specifications subject to change without notice</i>	
Orifice Diameter	8.08 inches
Collection Area	330 cm ²
Sensitivity	One tip at 0.1 mm, 0.2mm, 0.5mm or 0.01 inch
Measuring Range	0-700 mm/hr, 0-27 inches/hr
Accuracy	±2% from 25-500 mm/hr
Siphon	-4 mL capacity stainless steel & non-hydroscopic polymer with inset screen
Bucket	Injection molded non-hydroscopic ABS, UV-stabilized, chrome plated & balanced
Bearings	Sapphire jeweled bearings with hard stainless steel shaft (pivots)
Level	Bulls eye bubble level
Contact System	Single reed switch, potted
Contact Capacity	24 VA (0.5 amp max)
Contact Time	0.1 seconds
Height	483 mm (19 inches)
Weight	3 kg (6.6 lbs)

ORDERING	
5600-0625-1	205 mm Tipping Bucket Rain Gauge with Siphon; 0.1 mm calibration
5600-0625-2	205 mm Tipping Bucket Rain Gauge with Siphon, 0.2 mm calibration
5600-0625-5	205 mm Tipping Bucket Rain Gauge with Siphon, 0.5 mm calibration
5600-0625-6	205 mm Tipping Bucket Rain Gauge with Siphon, 0.01 inch calibration
9500-0209	8" Stainless Steel Filter screen
6211-1024-1	1.3" ID Pipe Mounting Kit



Tipping Bucket Interior