



Conforms to National Weather Service Recommendation

Overview

The TE525WS, manufactured by Texas Electronics, is a tipping bucket rain gage that conforms to the National Weather Service recommendation for an 8 in. funnel orifice. It measures

rainfall in 0.01 in. increments. This tipping bucket is compatible with all Campbell Scientific data loggers, and it is widely used in environmental monitoring applications.

Benefits and Features

- ▶ Compatible with most Campbell Scientific data loggers
- ▶ Accuracy is ± 1 percent at rates up to 1 in./hr
- ▶ High precision—tips at 0.01-in. increments
- ▶ Directly compatible with the CS705 Snowfall Adapter allowing the TE525WS to measure the water content of snow
- ▶ Conforms to the National Weather Service recommendation for an 8-inch funnel orifice
- ▶ Compatible with the CWS900-series interfaces, allowing it to be used in a wireless sensor network

Detailed Description

The TE525WS funnels precipitation into a bucket mechanism that tips when filled to its calibrated level. A magnet attached to the tipping mechanism actuates a switch as the bucket tips.


The momentary switch closure is counted by the pulse-counting circuitry of our data loggers.

Specifications

Sensor Type	Tipping bucket with magnetic reed switch	Operating Temperature Range	0° to 50°C
Material	Anodized aluminum	Resolution	1 tip
		Volume per Tip	8.24 ml/tip (0.28 fl. oz/tip)

Rainfall per Tip	0.254 mm (0.01 in.)
Measurement Uncertainty	1.0% up to 50 mm/h (2 in./h)
Cable Type	2-conductor shielded
Orifice Diameter	20.3 cm (8 in.)

Dimensions	21 x 21 x 26.7 cm (8.25 x 8.25 x 10.5 in.)
Cable Weight	0.1 kg (0.2 lb) per 3.05 m (10 ft) length
Tipping Bucket Weight	1.0 kg (2.2 lb)

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