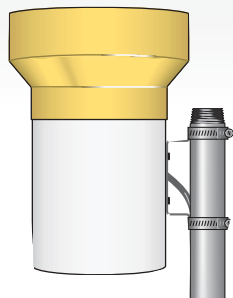


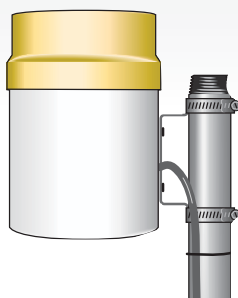


## TE525, TE525WS, and TE525M

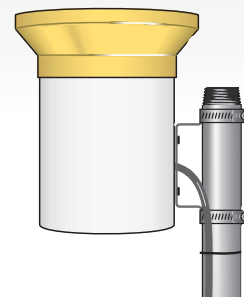
Texas Electronics Tipping Bucket Rain Gages



The TE525WS conforms to the National Weather Service recommendation for an 8-inch funnel orifice.



The TE525 is widely used in environmental monitoring applications.



The TE525M measures rainfall in metric rather than US units.

### Overview

The TE525-series tipping bucket rain gages are manufactured by Texas Electronics. They funnel precipitation into a bucket mechanism that tips when filled to a 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 Campbell Scientific dataloggers.

### Benefits and Features

- › High precision
- › Integral bubble level
- › Compatible with all Campbell Scientific dataloggers (including the CR200(X) series)
- › Compatible with the CWS900-series interfaces, allowing it to be used in a wireless sensor network

### Mounting

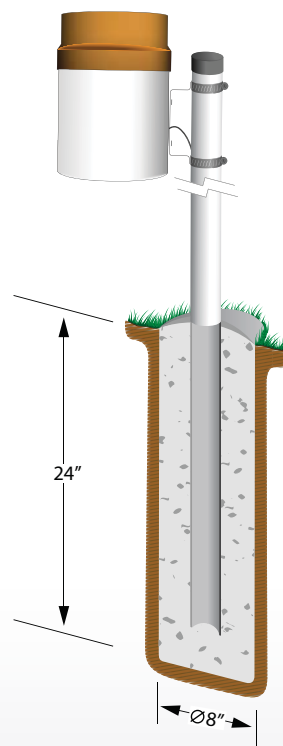
The TE525-series rain gages mount to a CM300-series Mounting Pole or a user-supplied 1.5 in. IPS pole. Accurate measurements require the gage to be level.

### Wind Screen

Campbell Scientific offers the 260-953 Wind Screen to help minimize the affect of wind on the rain measurements. This wind screen consists of 32 leaves that hang freely and swing as wind moves past them.

### Snowfall Adapter

Campbell Scientific's CS705 Snowfall Conversion Adapter uses antifreeze to melt snow, allowing the TE525WS to measure the water content of snow. The CS705 cannot be directly used with either the TE525 or TE525M. However, both the TE525 and TE525M can be converted to a TE525WS by returning them to Campbell Scientific. For more information, refer to the CS705 brochure.



At left is a TE525 mounted onto a CM310 pole that is embedded directly in a concrete pad (-NP no pedestal base option).



## Ordering Information

### Tipping Bucket Raingages

Enter the cable length, in feet, after the -L. Recommended length is 25 ft, but many customers will order a 50 ft cable to place the gage away from the tower or tripod. Must choose a cable termination option.

**TE525WS-L** Tipping bucket with 8 inch diameter orifice and 0.01 in. tips.

**TE525-L** Tipping bucket with 6 inch diameter orifice and 0.01 in. tips.

**TE525MM-L** Tipping bucket with 24.5 cm diameter orifice and 0.1 mm tips.

## Specifications

	TE525	TE525WS	TE525MM
<b>Sensor Type</b>	tipping bucket/potted magnetic momentary contact reed switch		
<b>Switch Ratings</b>	30 Vdc at 2 A; 115 Vac at 1 A; closure time: 135 ms; bounce settling time: 0.75 ms		
<b>Bucket Material</b>	white powder coated spun aluminum		
<b>Funnel Collector Material</b>	gold anodized spun aluminum		
<b>Screen Material</b>	gold anodized spun aluminum		
<b>Locking Snap Ring Material</b>	stainless steel		
<b>Operating Temperature</b>	0° to +50°C (32° to 125°F)		
<b>Resolution</b>	1 tip		
<b>Volume per Tip</b>	4.73 ml/tip (0.16 fl. oz/tip)	8.24 ml/tip (0.28 fl. oz/tip)	4.73 ml/tip (0.16 fl. oz/tip)
<b>Rainfall per Tip</b>	0.01 in. (0.254 mm)		0.1 mm (0.004 in)
<b>Accuracy</b>	1.0% up to 2 in/hour (50 mm/hr)		
<b>Knife Edge Funnel Collector Diameter</b>	15.4 cm (6.1 in)	20.3 cm (8 in)	24.5 cm (9.7 in)
<b>Height</b>	24.1 cm (9.5 in)	26.7 cm (10.5 in)	29.2 cm (11.5 in)
<b>Tipping Bucket Weight</b>	0.9 kg (2 lb)	1 kg (2.2 lb)	1.1 kg (2.4 lb)
<b>Cable</b>	2-conductor shielded cable		
<b>Cable Weight</b>	0.1 kg (0.2 lb) per 10 ft length		
<b>Warranty</b>	three year		

