

# Tipping Bucket Rain Gages

## Models TE525WS, TE525, TE525MM

The TE525-series tipping bucket rain gages are manufactured by Texas Electronics. Both the TE525WS and TE525 measure in 0.01 inch increments; the TE525MM measures in 0.1 mm increments. These gages 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.

### Snowfall Adapter

The TE525WS and TE525 are compatible with Campbell Scientific's CS705 Snowfall Conversion Adapter, which allows you to measure the water content of snow. The CS705 uses antifreeze to melt the snow. The TE525 requires a recalibration when the CS705 is added or removed; the TE525WS does not. The TE525MM is not compatible with the CS705. For more information about the CS705, refer to the CS705 product literature.

### Mounting

The TE525-series rain gages mount to a CM300-series Mounting Pole or a user-supplied 1.5" IPS pole. Several pedestal options are available to secure a CM300-series pole to the ground. 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 the wind moves past them.

### Ordering Information

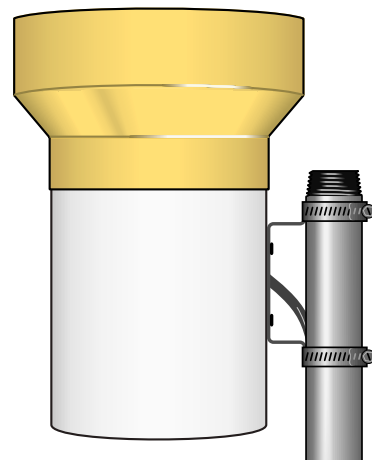
#### Tipping Bucket Rain Gages

*Recommended lead length is 25 feet, but many customers will order a 50-ft cable to place the gage away from the tower or tripod.*

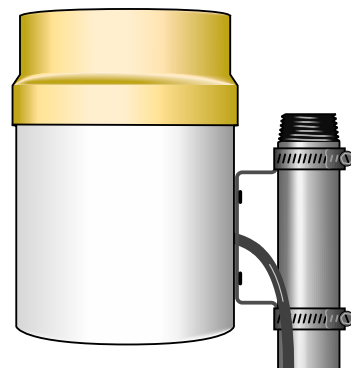
- TE525WS-L 8-inch diameter; 0.01 inch tips; user-specified lead length. Enter lead length (in feet) after L.
- TE525-L 6-inch diameter; 0.01 inch tips; user-specified lead length. Enter lead length (in feet) after L.
- TE525MM-L 24.5 cm diameter; 0.1 mm tips; user-specified lead length. Enter lead length (in feet) after L.

#### Snowfall Adapter

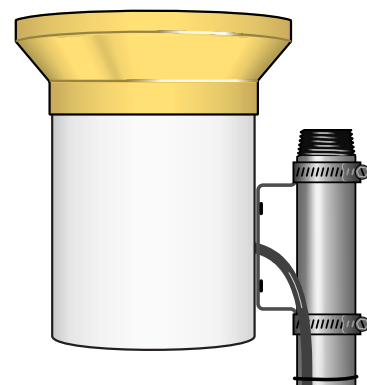
- CS705 Snowfall adapter for rain gages with 6" or 8" orifices
- 10869 Four one-gallon containers of 50:50 PG:E Antifreeze; only US ground shipments



*The TE525WS Tipping Bucket Rain Gage has an 8" diameter orifice.*



*The TE525 Tipping Bucket Rain Gage has a 6" diameter orifice.*



*The TE525MM Tipping Bucket Rain Gage has a 24.5 cm diameter orifice.*

## Ordering Information Continued

### Mounting Poles

- CM300 23" Mounting Pole with Cap
- CM305 47" Mounting Pole with Cap
- CM310 56" Mounting Pole with Cap

### Pedestal Options for Mounting Poles

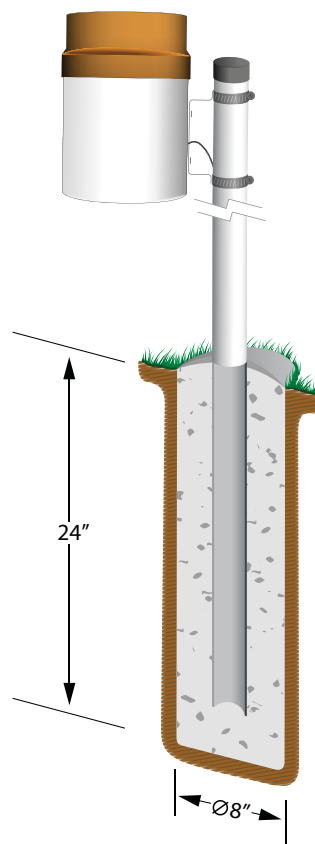
- NP No Pedestal Base
- PJ CM340 Pedestal J-Bolt Kit
- PS CM350 Pedestal Short Legs (23" legs)
- PL CM355 Pedestal Long Legs (39" legs)

### Wind Screen

- 260-953 Novalynx Alter-type Rain Gage Wind Screen, 36 inch legs

## Specifications

- Sensor type:** Tipping bucket/magnetic reed switch
- Material:** Anodized aluminum
- Temperature:** 0° to +50°C
- Resolution:** 1 tip
- Cable:** 2-conductor shielded cable



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

	TE525WS	TE525	TE525MM
<b>Rainfall per tip:</b>	0.01" (0.254 mm)	0.01" (0.254 mm)	0.004" (0.1 mm)
<b>Orifice diameter:</b>	8" (20.3 cm)	6.06" (15.4 cm)	9.66" (24.5 cm)
<b>Height:</b>	10.5" (26.7 cm)	9.5" (24.1 cm)	11.5" (29.21 cm)
<b>Weight:</b>	2.5 lbs. (1.1 kg)	2.5 lbs. (1.1 kg)	2.7 lbs. (1.2 kg)
<b>Accuracy:</b>			
Up to 1 inch/hr:	±1%	±1%	Up to 10 mm/hr: ±1%
1 to 2 inch/hr:	+0, -2.5%	+0, -3%	10 to 20 mm/hr: +0, -3%
2 to 3 inch/hr:	+0, -3.5%	+0, -5%	20 to 30 mm/hr: +0, -5%

