

Rain Gauge Tipping Bucket

TR-525I Series Rainfall Sensor



Description

The Texas Electronics, Inc. TR-525I Rainfall Sensor with 6" diameter funnel is a remote tipping bucket style rain gauge that measures liquid precipitation.

The Rain Gauge is a freestanding receptacle for measuring precipitation. Through an opening at the top of the device, rain is collected and then funneled to a mechanical device, called a tipping bucket. As water is collected, the tipping bucket fills to the point that it tips over, causing a momentary closure of a switch to incrementally measure rainfall accumulation. This action empties the bucket in preparation for additional measurement. Water discharged by the tipping bucket passes out of the rain gauge with no need for emptying.

The TR-525I is a rugged and reliable rain gauge that delivers high accuracy at a low cost.

Features & Benefits

- Interfaces with virtually all data acquisition systems
- Knife-edge collector optimizes rainfall catch
- Exceptional splash-out protection improves accuracy in high winds
- Easy installation and maintenance
- Over 30 years in production
- Lightweight aluminum exterior
- Anodized aluminum collector for weather resistance
- Integrated bubble level

Specifications

| | |
|------------------------|---|
| Resolution: | 0.01" English, 0.2 mm Metric (optional) |
| Accuracy: | 1.0% up to 2"/hr or less |
| Collector diameter: | 6.060" (154 mm) with knife-edge |
| Funnel depth: | 6.4" (163 mm) |
| Splash out protection: | >2" (50 mm) |
| Operating Temp: | 32 to 158° F (0 to 50° C) |
| Storage Temp: | -40 to 185° F (-40 to 70° C) |
| Humidity Limits: | 0 to 100% |
| Weight: | 4 lbs. |
| Height: | 10.25" |
| Cable: | 25', 24 gauge 2 conductor |
| Switch: | Momentary potted reed switch |
| Switch rating: | 30 VDC @ 2 A, 115 VAC @ 1 A |
| Switch Closure Time: | 135 ms |
| Bounce Settling Time: | 0.75 ms |
| Pivot: | Hardened SS Jewel & Pivot |
| Bucket: | Black ABS injection molded |
| Level: | Integral Bubble Level |
| Warranty: | 3 years |

Installation & Maintenance

Installation consists of attaching the three sensor support legs to a firm platform (such as our MB-525 Mounting Base). Pole mounting on the mast of a weather station is available by securing to the included side bracket.

Maintenance consists of routine cleaning of debris from the filter screen, and occasional calibration verification with our FC-525 Field Calibration Kit.

Ordering information

Model #: TR-525I

Description: Rain Gauge, 6.06" collector, English
(Please specify for calibration of 0.2 mm/tip)

Optional Parts / Accessories

Pendant Datalogger
MB-525 Pole Mounting Base
FC-525 Field Calibration Kit
BB-525 Bird Repellent
HT-525 Heater, 120 VAC