



GR-6 & GR-8 Tipping Bucket Rain Sensors



Description

The Telog GR-6 & GR-8 Rainfall Sensors are remote tipping bucket style rain gauges that measure the amount of liquid precipitation. The GR-6 & GR-8 rain gauges are freestanding receptacles for measuring precipitation. Each contains an open top, which allows rainfall to fall into the upper portion, which is called the collector. Collected water is funneled to a mechanical device (tipping bucket), which incrementally measures the rainfall accumulation and causes a momentary closure of a switch. As water is collected, the tipping bucket fills to the point where it tips over. 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 GR-6 & GR-8 were designed to meet the need for rugged and reliable rain gauge tipping buckets with high accuracy and low cost.

Features & Benefits

- Works with all Telog RTUs, especially the Telog RG-32
- Knife-edge collector optimizes rainfall catch
- Exceptional splash-out protection to compensate for wind errors
- Easy installation and maintenance
- Lightweight spun Aluminum Exterior
- Anodized aluminum collector for superior weather resistance
- Integral Bubble Level

Installation & Maintenance

Installation consists of attaching the three sensor support legs to a firm platform. Pole mounting on the mast of a weather station is available by securing to the included side bracket. The sensor is dynamically calibrated at the factory and due to the nature of its operation should not require field calibration. Field maintenance should include occasional cleaning of the collector screen and inspection of the internal mechanism to make sure it is free from insects and debris.

Specifications

| | GR-6 | GR-8 |
|------------------------|---|---|
| Resolution: | 0.01" English 0.2 mm Metric (optional) | 0.01" English |
| Accuracy: | 1.0% up to 2"/hr (50 mm/hr) | 1.0% up to 2"/hr (50 mm/hr) |
| Collector diameter: | 6.060" (154 mm) with knife-edge | 8.00" (203 mm) with knife-edge |
| Funnel depth: | 6.4" (163 mm) | 6.4" (163 mm) |
| Splash out protection: | >2" (50 mm) | >2" (50 mm) |
| Operating Temp: | 32 to 125° F (0 to 50° C) | 32 to 125° F (0 to 50° C) |
| Storage Temp: | -40 to 160° F (-40 to 70° C) | -40 to 160° F (-40 to 70° C) |
| Humidity Limits: | 0 to 100% | 0 to 100% |
| Weight: | 2.5 lbs. (1.2 kg) 6 lbs. (2.7 kg) shipping | 2.5 lbs. (1.2 kg) 6 lbs. (2.7 kg) shipping |
| Height: | 10" (255 mm) | 11" (280 mm) >2" (50 mm) splash out protection |
| Cable: | 25', 22 gauge 2 conductor | 25', 22 gauge 2 conductor |
| Switch: | Hermetically sealed reed switch | Momentary potted reed switch |
| Switch rating: | 30 VDC @ 2 A, 115 VAC @ 1 A | 30 VDC @ 2 A, 115 VAC @ 1 A |
| Switch Closure Time: | 135 ms | 135 ms |
| Bounce Settling Time: | 0.75 ms | 0.75 ms |
| Pivot: | Hardened SS Jewel & Pivot | Hardened SS Jewel & Pivot |
| Bucket: | UV Protected ABS | UV Protected ABS |
| Level: | Integral Bubble Level | Integral Bubble Level |