NEW!

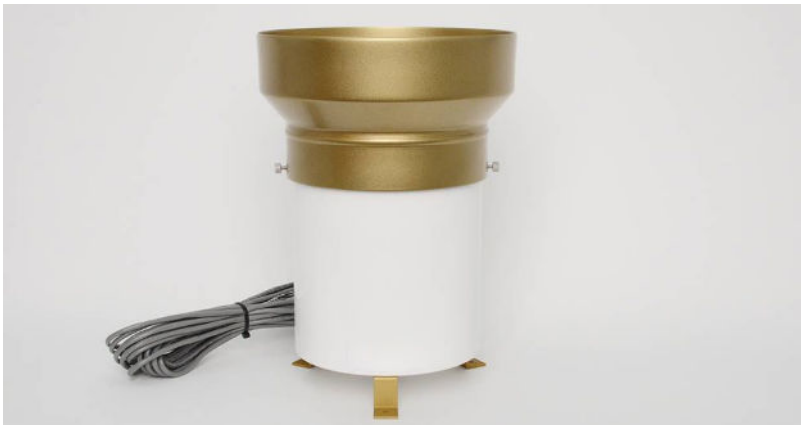
Precipitation



YOUNG

# Model TR-525USW
# 8” Rainfall Tipping Bucket

# YOUNG Model TR-525USW 8” Rainfall Tipping Bucket



The TR-525USW Rainfall Sensor with 8” 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-525USW was specifically designed to meet the National Weather Service’s requirements for rainfall measurement.

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-500 Field Calibration Kit.

## Key Features

- Meets government requirements for an 8” collector
- 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 (optional) |
| Accuracy: | 0-2 in. (50 mm) per hour, ±1% |
| Range: | 27” (700 mm) per hour |
| Collector Diameter: | 8” (203 mm) with knife-edge |
| Funnel Depth: | 6.4” (163 mm) |
| Splash Out Protection: | >2” (50 mm) |
| Operating Temp: | 32-158° F (0-70° C) |
| Storage Temp: | -40-185° F (-40-85° C) |
| Humidity Limits: | 0-100% |
| Weight: | 6 lbs |
| Height: | 11.125” (283 mm) |
| Cable: | 10’, 24 gauge, 2 conductor |
| Switch: | Momentary potted reed switch |
| Switch Closure Time: | 135 ms |
| Bounce Settling Time: | 0.75 ms |
| Pivot: | Ground bronze pivots with hardened stainless steel shaft |
| Bucket: | Black ABS injection molded |
| Level: | Integral bubble level |
| Warranty: | 3 years |

## Ordering Information

**Model #:** TR-525USW
**Description:** Rain Gauge, 8” collector, English (Please specify for calibration of 0.2 mm/tip)

**Optional Parts / Accessories:**

| | |
|---|---|
| HOBO | Pendant Datalogger |
| MB-525 | Pole Mounting Base |
| FC-500 | Field Calibration Kit |
| BB-525 | Bird Repellent |
| HT-525 | Heater, 120 VAC |

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