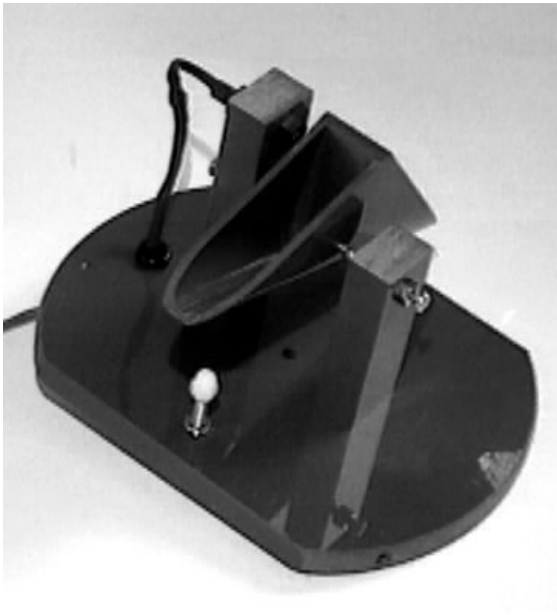


Model 2500 Rain Gage

Document 1803, Version B



GENERAL INFORMATION

The 2502 Rain Gauge is an economical tipping bucket rain gauge. Its simplicity of design assures trouble free operation yet provides accurate rate of rainfall measurement.

CONSTRUCTION

The 8" orifice funnel is manufactured from anodized aluminum to meet the National Weather Service Specifications. The housing, bucket supports and tipping bucket are PVC, to be robust, chemically resistant and environmentally stable.

OPERATION

A ceramic magnet mounted in a recess on the tipping bucket activates a proximity switch, to provide a contact closure at every calibrated tip of the tipping bucket. Calibrations are specified at the time of ordering as one of those listed under specifications.

FEATURES

- Removable housing for easy maintenance
- Robust construction
- Meets E.P.A. & N.W.S specifications
- Environmentally stable materials
- Adjustable reed switch
- Adjustable tipping bucket
- 50' of sensor cable

SPECIFICATIONS

Switch: Proximity switch rating: 3W, 28 VAC
Accuracy: +/- 4% over range of 1" to 6" per hour
Orifice: 8" diameter
Dimensions: 8.4" D x 12.0" H
Shipping weight: 10 lb.
Calibrations: Model 2502 - 0.01in, Model 2504 - 1.0 MM
Model 2503 - 0.5MM, Model 2501 - 0.25 MM
Mounting: 3 equally spaced legs, 1/4" diameter bolt holes
on 9 1/2" diameter bolt circle
Construction: Funnel Anodized aluminum
Base 1/2" PVC
Body 3/8" PVC
Bucket Support 1/2" x 1.125" PVC
Tipping Bucket PVC 0.125" sheet
Accessories A96-100 Surge Protector
A70-R Transmitter
A70-LPDDLCD Display

ISO 9001 Registered

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Model H07-002-04 Rain Gage Data Logger



Features for rainfall measurement

- Easily connects to 2-wire output or 2-screw terminals in the collector
- Compact, weatherproof case can be mounted inside or outside the rain collector (avoid direct sunlight)
- 8000-tip capacity for up to 80" of rainfall between readouts with 0.01" tipping-bucket collectors
- User-entered resolution to match with rain-gauge collector
- Programmable lockout time to filter out false counts due to tipping-bucket bounce
- Tip counts logged with time information to enable rainfall intensity determination
- Windows software & serial interface cable included.

Features and specifications

- Capacity: 8000 events (80 inches of rain)
- Event resolution: 0.5 seconds
- Readout and relaunch in the field with lap top PC or optional Hobo Shuttle
- Programmable start time/date
- Memory modes: stop when full or wraparound when full
- Nonvolatile EEPROM memory retains data even if the battery fails
- Blinking LED light inside case confirms operation
- User-replaceable battery, lasts 1 year (CR-2032, lithium)
- Battery check at launch
- Operating temperature range (logger): -4°F to +158°F (-20°C to +70°C)
- Relative humidity range (when case is open): 0 to 95%, non-condensing
- Time accuracy: ±1 minute per week at +68°F (+20°C).
- Size/Weight: 4.3 x 3.5 x 1.8" (108 x 89 x 44 mm)/3.3 oz (94 gms)
- Case: weatherproof enclosure (avoid placing in direct sunlight)
- One year warranty

Accessories

Pro 4.0 Software for Windows BCP4.0-ON
Hobo Shuttle H09-002-08

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