

HYDROLOGICAL SERVICES RAIN GAUGE COMPARISON



Description:

The Hydrological Services Tipping Bucket Rain gauge is recognised as the standard for measuring rainfall and precipitation in remote unattended locations. A catcher fitted with a stainless steel leaf sieve delivers precipitation into a syphon device. This mechanism accurately controls the flow into the tipping buckets. The rain gauge consists of an outer cover secured with screws or quick release (TB5) fasteners, to a base supporting the tipping bucket mechanism. The unit includes dual output reed switch with Varistor protection as well as dual rainfall discharge outlets for water collection and/or analysis. Insect screens are fitted to all outer openings. The bucket tips when precipitation of 0.01 inch, 0.2mm, or 0.5mm, has been collected. Each tip is marked by a reed switch closure and stored to a Data Logger and / or used by Telemetry System.

ACCESSORIES:

Rainfall Data Logger - Model RRDL-3 or R1; Rainfall Sentry - Model RS-2

Specifications:

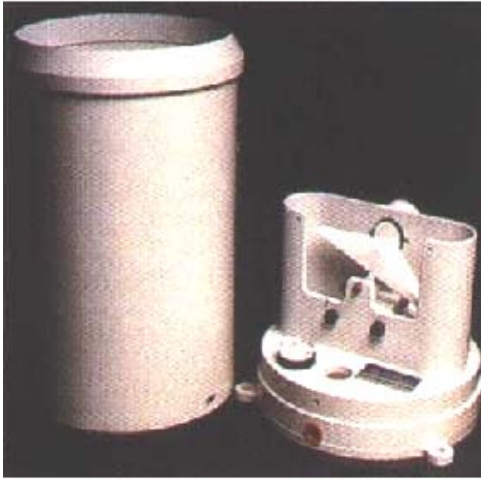
Model	TB3	TB4	TB5
Receiver	200mm+/-0.3 diameter		
Measuring Range	0-700 mm/hr		
Sensitivity	One tip at 0.01 inch, 0.1 mm, 0.2 mm, 0.5 mm or 1.0 mm		One tip at 0.01 inch, 0.2mm or 0.5mm
Calibration	+/-2% 25-500 mm/hr. stable long term calibration	+/-3% 25-500 mm/hr. stable long term calibration	+/-4% 25-500 mm/hr. stable long term calibration
Sensor	Tipping Bucket with Syphon. Syphon regulates an even flow of water into the tipping buckets.		
Contact System	Dual Reed Switches potted in Silicon Rubber with Varistor protection		
Contact Capacity	12VDC, 0.5 amp max.		
Contact Time	0.1Second		
Bucket - plastic	Injection Moulded ABS Chrome Plated		
- metal	Synthetic Ceramic coated Brass, balanced to +/-0.05 grams	N/A	
Pivots	Jewel grade sapphire pivots with stainless steel shaft	Stainless Spring Steel shaft & Roller Bearing	
Base	Die cast aluminium, heat-treated for long term stability	Injection Moulded ASA, UV stabilised for long life	
Catch	Anodised & powder coated Aluminium		Injection Moulded ASA, UV stabilised for long life
Outer Enclosure Level	Powder coated Aluminium with quick release design Bulls eye level on base		
Mounting Holes	Three 10mm diameter @ 117mm PCD		
Drain Fittings	Attachments for 12mm diameter clear tubing		
Insect covers	Stainless steel mesh on all opening		
Lead	Supplied complete with 10m of connecting lead Datalogger support brackets also available		

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TB3



TB4



TB5

