



OBSERVATOR
instruments

RIM7499 Rain Gauge

The RIMCO RIM7499 range of siphon controlled tipping bucket rain gauges are professional instruments designed and constructed for long-term operation with minimal maintenance under all climatic conditions. All materials are corrosion resistant. These proven instruments are accurate to within 1% for rainfall rates up to 200mm/hr and 3% up to 380mm/hr.

RIMCO RIM7499 rain gauges are manufactured to stringent requirements including those of the Australian Bureau of Meteorology, the Environment Agency (UK) and the Danish DMI.

Rain falling on the 203mm collecting funnel is directed through a siphon control unit and discharges as a steady stream into a two compartment bucket mounted in unstable equilibrium. As each compartment fills the bucket tilts alternately about its axis. Each tip forces a contact closure by magnetic means corresponding to 0.2, 0.25 or 0.5mm of rainfall according to bucket capacity. A calibration certificate is supplied with every RIM7499 rain gauge

FEATURES

- Rugged and corrosion resistant construction.
- Minimal maintenance, 25 years+ deployment life.
- Low friction, non-seizing bucket bearings.
- Gold plated buckets for minimal retention.
- Dual reed switch output.
- Stable calibration.
- Built-in bubble level.
- Optional heater for operation below -30°C .
- Mounting pedestal available.

APPLICATIONS

- General meteorology.
- Water resources studies.
- Hydrology.
- Flood warning systems.
- Automatic logging systems.
- Remote and long term logging deployments.



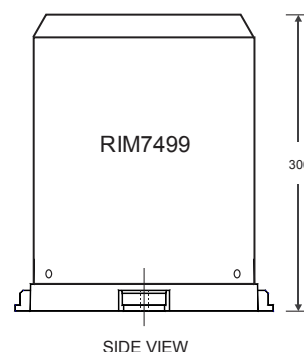
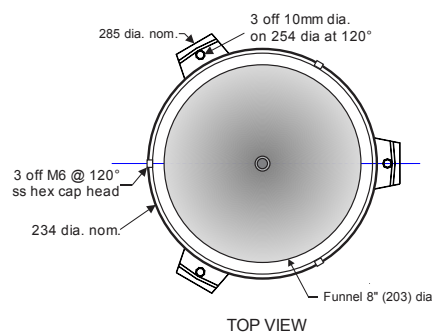
SPECIFICATIONS

Collector Diameter	203 (8") \pm 0.2mm.	
Accuracy	\pm 1% to 200mm/hr. \pm 3% to 380mm/hr. Useful to over 500mm/hr.	
Resolutions	0.2, 0.25 and 0.5mm (0.01" and 0.02" to special order)	
Contacts	Two normally open magnetically actuated reed switches. Individual protection built-in	
Switch Rating	50V ac/dc at 0.5A non-inductive	
Closure Timing	50 millisecs min, 150 millisecs max Max bounce time 0.75 milliseconds up to 500mm/Hr	
Termination	Screw termination (2.5mm ²)	
Dimensions	300mm 230mm 280mm	height body diameter base diameter
Materials	Collector Jacket Base Bucket Bridge Switch Holder Fasteners	Copper Stainless Steel Cast Marine Grade Aluminium (Powder Coated) Gold Plated Brass Anodized Marine Grade Aluminium Delrin® Stainless Steel

Physical	5.5kg 7.0kg 330x330x430mm	net weight. shipping weight. packing carton.
Data Logger Options	Several models available depending on application requirements. Some data loggers may be installed within the body of the rain gauge.	
Heating Option	12 or 24V ac/dc (48W max) operation with electronic thermostatic control (P/N 7499TCH). Specify operating voltage at time of order.	
Mounting Option	A rugged mounting pedestal that elevates the collection rim 1m above ground level (P/N 8000PED1).	
Ordering	RIM7499020 RIM7499025 RIM7499050	0.2mm bucket. 0.25mm bucket. 0.5mm bucket.

Order options as required.

Non-siphon and imperial resolution versions are also available with differing accuracy specifications. Other RIMCO rain gauge models are also available with 200cm² (RIM8500), 400cm² (RIM8400) and 300mm (12") (RIM8300) diameter collectors.



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