



RIMCO
METEOROLOGY

RIMCO 7499 SIPHON TIPPING BUCKET RAIN GAUGE

The RIMCO 7499 range of syphon controlled tipping bucket rain gauges are 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 250mm/hr and 3% up to 500mm/hr.

RIMCO 7499 rain gauges are manufactured to Australian Bureau of Meteorology requirements. Rain falling on the 203mm collecting funnel is directed through a syphon 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, 0.5 or 1.0mm of rainfall according to bucket capacity. Imperial units are also available.

A 0.1mm resolution version is also available with the part number RIM7499010. Details are available on a separate data sheet.



FEATURES

- Rugged and corrosion resistant construction.
- Low friction, non-seizing bucket bearings.
- Gold plated buckets for minimal retention.
- Reed switch output with dual switch option.
- Stable calibration.
- Built-in bubble level and adjustable feet.
- Optional self powered internal counter.
- Optional heater for operation below -30°C .

APPLICATIONS

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

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SIPHON TIPPING BUCKET RAIN GAUGE

Specifications:

Receiving Collector Diameter	203 ± 0.2mm.	
Accuracy	± 1% to 250mm/Hr. ± 3% to 500mm/Hr.	
Resolutions Available	0.2, 0.25, 0.5 or 1.0mm (and 0.01", 0.025" or 0.05" to special order).	
Contacts	One normally open magnetically actuated reed switch. Dual reed switch assemblies available as option - add suffix /2.	
Reed Switch Rating	50V ac/dc at 0.5A non-inductive.	
Closure Timing	50 milliseconds min., 150 milliseconds max. Max bounce time 0.75 milliseconds up to 500mm/Hr.	
Termination	Screw termination (2.5mm ²) and 4.8mm male spade terminations on the Reed Switch Holder.	
Dimensions	300mm	height.
	230mm	body diameter.
	280mm	base diameter.
Physical	5.5kg	net weight.
	7.0kg	shipping weight.
	330x330x430mm	packing carton.
Heating Option	12 or 24V ac/dc (48W max) operation with electronic thermostatic control (P/N 7499TCH). Isolated power supplies to allow operation from 110V ac or 220V ac, 50/60Hz are also available (P/N 7499TX12 or P/N 7499TX24).	
Counter Option	Liquid Crystal 6 Digit Counter (self powered) installed within rain gauge (P/N 7499LCD).	
Ordering Information	RIM7499020	0.2mm bucket.
	RIM7499025	0.25mm bucket.
	RIM7499050	0.5mm bucket.
	RIM7499100	1.0mm bucket.
	For dual reed switch configuration suffix the part number with /2. Order options as required. Non-siphon versions are also available with differing accuracy specifications. RIMCO rain gauge models are also available with 200cm ² , 400cm ² and 12" diameter receiving collectors.	