



## RIM8500 200cm<sup>2</sup> Rain Gauge

The RIMCO 8500 series of tipping bucket rain gauges are designed and constructed for long-term operation with minimal maintenance under almost all climatic conditions.

All materials used are corrosion resistant. This proven instrument is accurate to within 5% for rainfall rates from 25mm/hr to 350mm/hr and better than 7% up to 440mm/hr for the 0.1mm model and accurate to within 4% for rainfall rates from 25 mm/hr to 350mm/hr and better than 6% up to 440mm/hr for the 0.2mm and 0.25 models.

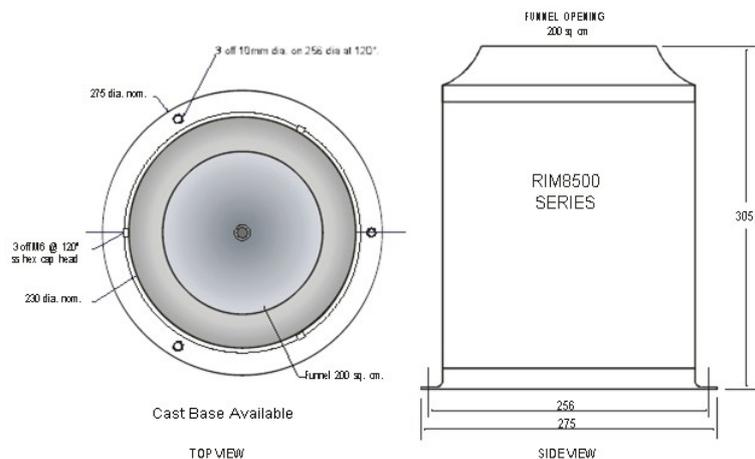
The RIMCO 8500 may be mounted at ground level on a level slab or on the optional stand 8000PED1 which elevates the collection rim to 1 meter above ground level. Other heights are available to order.

### Features

- Rugged and corrosion resistant construction
- Low friction, non-seizing bucket bearings
- Gold plated bucket for minimal retention
- Reed switch output
- Stable calibration
- Built-in bubble level
- 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



# SPECIFICATIONS

Collector Diameter	200 ± 1cm <sup>2</sup>		Mounting	Three holes of 10mm diameter on 256 diameter at 120° pitch on mounting flange	
Resolutions	0.1mm, 0.2mm and 0.25mm		Physical	4.0kg net 4.5kg shipping weight Standard shipping carton - 330mm x 330mm x 500mm nominal	
Accuracy	<u>RIM8500-01</u> ±5% from 25mm/hr to 350hr, ±7% to 440mm/hr <u>RIM8500-02</u> ±4% from 25mm/hr to 350hr, ±6% to 440mm/hr <u>RIM8500-025</u> ±4% from 25mm/hr to 350hr, ±6% to 440mm/hr		Temperature	Operating	0° to +60°C (no heating)
Contact	One normally open magnetically actuated reed switch		Storage		-65°C to +75°C
Switch Rating	50V ac/dc at 0.5A non-inductive		Humidity	Operating	<10% to 100%
Closure Timing	50 milliseconds min; 150 milliseconds max; 0.75 milliseconds bounce time max		Storage		5% to 100%
Termination	Screw termination (2.5mm <sup>2</sup> ) and 4.8mm male spade terminations on Reed Switch Holder.		Precipitation	Operating	heavy rain, hail or snow
Dimensions	305mm	height	Vibration	Operating	High, consistent with high winds
	230mm	body diameter	Storage		High, consistent with shipping and handling
	275mm	mounting flange diameter	Heater Option	12 or 24V ac/dc (48W max) operation with electronic thermostatic control (P/N 8500TCH).	
			Data logger	Self powered data logger installed within the body of the rain gauge. RS232 port for configuration by and download to a PC	
			Ordering	RIM8500-01	0.1mm bucket
				RIM8500-02	0.2mm bucket
				RIM8500-025	0.25mm bucket