



MS303

RAIN COLLECTOR SENSOR

- *Resolution 0.2mm*
- *Low cost*



The Rain Collector is designed to meet the guidelines of the World Meteorological Organization. Rain enters the collector cone, passes through a debris-filtering screen, and collects in one chamber of the tipping bucket. The bucket tips when it has collected an amount of water corresponding to 0.2 mm of rainfall. As the bucket tips, it causes a switch closure and brings the second tipping bucket chamber into position. The rain water drains out through the screened drains in the base of the collector.

The collector is designed for years of accurate, trouble-free service. The body and base of the collector are constructed of tough, UV resistant plastic; the tipping bucket pivots on bearings that minimize friction and wear. Stainless steel adjustment screws under each chamber of the tipping bucket allow you to fine-tune the calibration of the Rain Collector.

The rain collector comes with mounting holes pre-drilled in the base and a built-in leveling trough to aid you in installing the rain collector. The Rain Collector Heater is available. This heater allows the Rain Collector to measure the water content of snowfall and ensures the sensor functionality at low temperatures. The Rain Collector is wind tunnel tested to be stable in winds up to 60m/s.

Technical Specifications

Sensor Type	Tipping bucket with magnetic reed switch
Output	Contact closure
Housing Material	UV-stabilized ABS plastic

Dimensions

Rain Collector	20.5 cm diameter (8")
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Accuracy

Rainfall	4%, ± 1 rainfall count between 0.2 mm and 50.0 mm per hour
	5%, ± 1 rainfall count between 50.0 mm and 100.0 mm per hour
Resolution	0.2 mm

Technical characteristics subject to change without notice