

# Stand Alone Rain Collectors

7852 & 7857



0.01" or 0.2 mm Increments

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 equal to the increment in which the collector measures (0.01" or 0.2 mm). 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 7857 rain collector comes with a mounting base that can be mounted to a pole or post. The 7852 model has a flat surface mount. 7857M and 7852M are factory-calibrated to report 0.2 mm per tip. The Rain Collector Heater is available for use with either of the Rain Collector units. This heater allows the Rain Collector to measure the moisture content of snowfall.

## Specifications

Sensor Type	.Tipping bucket with magnetic switch
Accuracy	.For rain rates up to 4"/hr (100 mm/hr): ±4% of total or ± 1 tip of the bucket (0.01"/0.2 mm), whichever is greater
Attached Cable Length	.40' (12 m)
Cable Type	.4-conductor, 26 AWG
Connector	.Modular connector (RJ-11)
Recommended Maximum Cable Length	.900' (270 m)
Housing Material	.UV-stabilized ABS plastic
Dimensions	
Rain Collector	.6.5" opening diameter (16.5 cm) x 9.5" (24 cm) high without bird spikes
Collection Area	.33.2 in <sup>2</sup> (214 cm <sup>2</sup> )
Weight	
7852	.2 lbs. 3 oz. (1 kg)
7857	.3 lbs. 3 oz. (1.5 kg)

## Input/Output Connections

Black	.Unused
Red	.Switch terminal
Green & Yellow	.Switch terminal

## Rain Sensor Charts

## Package Dimensions

Product #	Package Dimensions (Length x Width x Height)	Package Weight	UPC Codes
7852	8.63" x 8.75" x 11.00" (219 mm x 223 mm x 280 mm)	3.3 lbs. (1.5 kg)	011698 78520 9
7857	11.25" x 9.5" x 11.00" (286 mm x 241 mm x 280 mm)	4.1 lbs (1.9 kg)	011698 01142 1