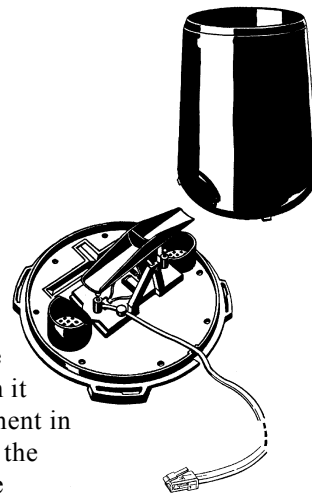


# Rain Collector

0.01" or 0.2 mm Increments

7852

Perception and Wizard Sensors



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 rain collector comes with an optional metric adapter for converting the rain collector to take 0.2 mm rain measurements for every tip of the bucket. 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 for use with either of the Rain Collector units. This heater allows the Rain Collector to measure the moisture content of snowfall and protects the internal components from freezing rain. If mounted according to instructions, the Rain Collector is wind tunnel tested to be stable in winds up to 140 MPH (224 kph).

## General

Sensor Type	Tipping bucket with magnetic reed switch
Output	Contact closure
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
Collection Area	33.2 in <sup>2</sup> (214 cm <sup>2</sup> )
Weight	2 lbs. 3 oz. (1 kg)

## Console Data

Note: (These specifications apply to sensor output as converted by Davis Instruments weather station consoles.)

### Weather Monitor/Wizard Range

Daily Rainfall	0.00" to 99.99" (0.0 mm to 999.8 mm)
Total Rainfall	0.00" to 99.99" (0.0 mm to 999.8 mm)
Accuracy	
Rainfall	±4%, ±1 rainfall count between 0.01" and 2.00" per hour (0.2 mm and 50.0 mm per hour); ±5%, ±1 rainfall count between 2.00" and 4.00" per hour (50.0 mm and 100.0 mm per hour)
Resolution	0.01" (0.2 mm)
Sample and Display Update Interval	16 seconds (max)

**WeatherLink® Data**

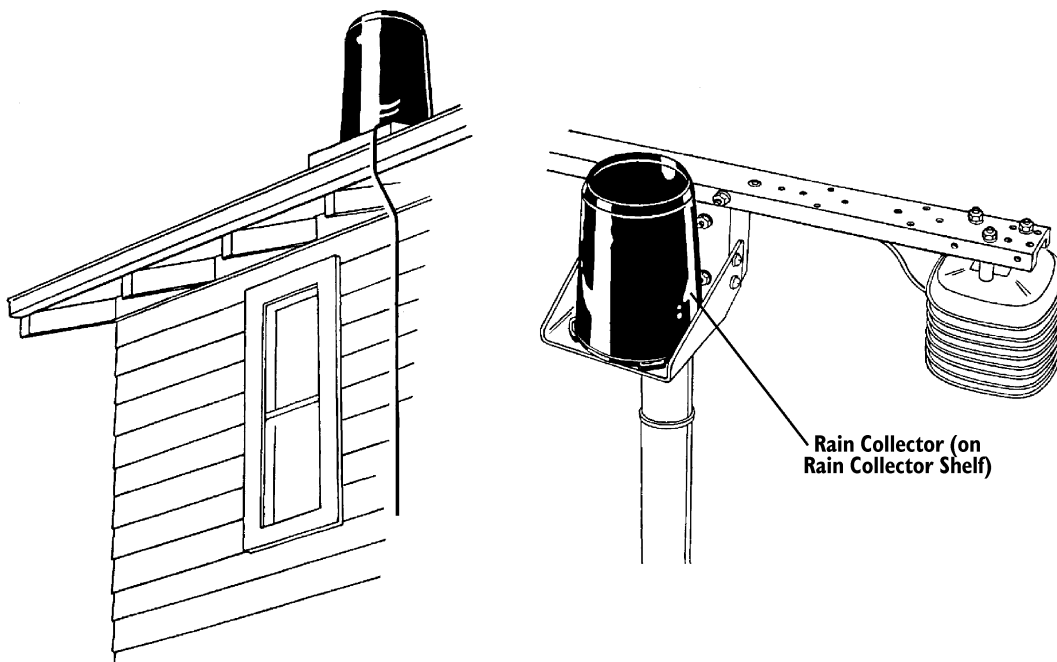
Note: (These specifications apply to sensor output as logged and displayed by the WeatherLink.)

Daily Rainfall ..... Total during archive interval  
 Total Rainfall ..... Total during archive interval  
 Rate of Rainfall ..... Maximum value during archive interval (For Vantage Pro and Pro2 models only)

**Input/Output Connections**

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

**Installation Options**



**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