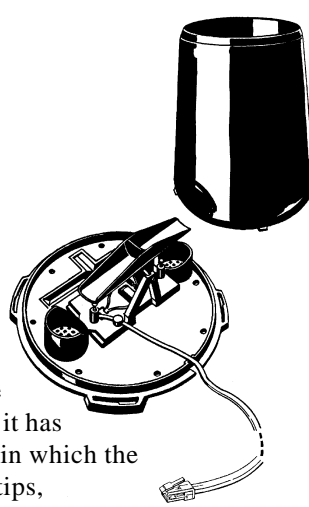


Rain Collector

0.01" or 0.2 mm Increments

7852



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 | 8.75" diameter x 9.5" high (16.5 cm diameter x 24 cm high) |
| Collection Area | 33.2 in ² (214 cm ²) |
| 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 9999 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) |