

**Smart Water Application Technology™ (SWAT™) Performance Report**
**Testing Agency: Center for Irrigation Technology** [www.californiawater.org](http://www.californiawater.org)
**Product: NDS Raindrip® WeatherSmartPRO™ RSC600is**
**Product Type: Climatologically Based Controller**
**Product Description: The WeatherSmartPRO RSC600is controller includes a wireless on-site weather station. Irrigation schedules are automatically modified daily and/or temporarily shut off based on actual temperature and rainfall measurements.**

**SWAT Protocol\*:** Turf and Landscape Equipment Climatologically Based Controllers 8th Draft Testing Protocol (Sept. 2008)  
 The concept of climatologically controlling irrigation systems has an extensive history of scientific study and documentation. The objective of this protocol is to evaluate how well current commercial technology has integrated the scientific data into a practical system that meets the agronomic needs of turf and landscape plants. The evaluation is accomplished by creating a virtual landscape subjected to a representative climate to evaluate the ability of individual controllers to adequately and efficiently irrigate that landscape. After initial programming and calibration the controller is expected to perform without further intervention during the test period. Performance results indicate to what degree the controller maintained root zone moistures within an acceptable range. If moisture levels are maintained without deficit, it can be assumed the crop growth and quality will be adequate. If moisture levels are maintained without excess it can be assumed that scheduling is efficient.

\*All SWAT protocol may be viewed at [www.irrigation.org](http://www.irrigation.org)

**Raindrip® WeatherSmart PRO SWAT™ Performance Summary**

| Irrigation Adequacy   | Irrigation Excess   |
|---|---|
| <b>Minimum of 6 test zones: 96.2%</b><br><b>Maximum of 6 test zones: 100%</b><br><b>Mean/Average of 6 test zones: 98.4%</b><br><b>Irrigation Adequacy</b> represents how well irrigation met the needs of the plant material. This reflects the percentage of required water for turf or plant material supplied by rainfall and controller-scheduled irrigations. Research suggests that if this value is between 80% and 100%, the acceptable quality of vegetation will be maintained. | <b>Minimum of 6 test zones: 0%</b><br><b>Maximum of 6 test zones: 0%</b><br><b>Mean/Average of 6 test zones: 0%</b><br><b>Irrigation Excess</b> represents how much irrigation water was applied beyond the needs of the plant material. This reflects the percentage of water applied in excess of 100% of required water according to data from CIMIS station #80 Fresno State, Fresno County during the test period. |

**Product Detail Supplied by Manufacturer**
**Raindrip® WeatherSmart PRO** [www.raindrip.com/weathersmart](http://www.raindrip.com/weathersmart)

| Installation   | Data Source   | Data Link   | Initial Purchase  | Additional Hardware | Additional Fees |
|--|---|---|---|---------------------|-----------------|
| Replaces an existing controller or installed on new irrigation system. | On-site weather station with rain gauge and temperature sensor. | Wireless link between controller and on-site weather station. | Included in package: 6 zone controller, on-site weather station and hardware. | None                | None            |

**Additional Features**

| Zones                  | Time of Day  | Day of Week  | Other  | If Data Link is Discontinued   |
|------------------------|--|--|--|--|
| Controls up to 6 zones | Capable of controlling watering time of day and watering duration. | Capable of controlling watering days using day-of-week, even/odd day scheduling. | <input type="checkbox"/> Automatic shut-off for rain or low temperature<br><input type="checkbox"/> Displays TODAY and YTD rainfall & water savings<br><input type="checkbox"/> Up to 4 independent start times per day<br><input type="checkbox"/> 4 independent cycles per day per zone<br><input type="checkbox"/> Zip Code based region identifier system<br><input type="checkbox"/> Separate AM & PM durations per zone option | Controller automatically reverts to using historic data in memory if wireless link is lost OR can be used in standard mode with percent adjust factors |



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