

Smart Water Application Technology™ (SWAT™) Performance Summary	
Testing Agency: Center for Irrigation Technology <span style="float: right;">www.californiawater.org</span>	
Product: Irritrol® RainDial® with Climate Logic™ Kit (CL-100 Wireless)	
Product Type: Climatologically Based Controller	
Product Description: RainDial RD600-INT-R controller with Climate Logic Kit (CL-100 Wireless includes CL-M1 receiver module and CL-W1 Weather sensor/transmitter) to convert conventional controller to smart controller.	
<b>SWAT Protocol*: Turf and Landscape Equipment Climatologically Based Controllers 8th Draft Testing Protocol (Sept. 2008)</b> 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 protocols may be viewed at <a href="http://www.irrigation.org">www.irrigation.org</a>	
Irritrol RainDial with Climate Logic Kit SWAT™ Performance Summary	
Irrigation Adequacy	Irrigation Excess
<b>Minimum of 6 test zones: 100%</b> <b>Maximum of 6 test zones: 100%</b> <b>Mean/Average of 6 test zones: 100%</b> <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> <b>Maximum of 6 test zones: 1.8%</b> <b>Mean/Average of 6 test zones: 0.6%</b> <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					
Irritrol RainDial with Climate Logic Kit					www.irritrol.com
Installation	Data Source	Data Link	Initial Purchase	Additional Hardware	Additional Fees
New or existing RainDial-R or existing RainDial Blue series controllers with RD-MOD-R update modules.	Onsite sensor transmits daily weather (solar and temperature) to receiver module.	Wireless communication up to 1000 feet line of sight signal range.	Includes Climate Logic weather sensor/transmitter and receiver module. Has built-in rain sensor.	Available separately, CL-M1 (receiver) CL-W1 (wireless weather sensor) and cable adapter. Optional hand held remote control available.	none
Additional Features					
Zones	Time of Day	Day of Week	Other		If Data Link is Discontinued
6, 9 & 12 stations; Indoor and Outdoor models	Capable of independently restricting the time of day for watering for each program	Independently set any day(s) of the week, 1-31 skip days or odd/even date for each of 3 programs	<input type="checkbox"/> 10-year historical weather database w/SD card included <input type="checkbox"/> Site specific customization with zip code or latitude/longitude <input type="checkbox"/> Wireless weather sensor interfaces with multiple receivers <input type="checkbox"/> Adjustable irrigation delay (0-3 days) following rain event. <input type="checkbox"/> Receiver module displays up to 2 years of on-site adjustment history.		Visual alarm displays on receiver LCD, 10-year site specific historical average will be used until the on-site weather data transmission is re-established. Existing rain/cold weather interruptions remain in effect per Receiver Module settings.