Smart Water Application Technology™ (SWAT™) Performance Summary

<table>
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<tr>
<th>Product: Irritrol® Total Control®-R Series with Climate Logic™ Kit</th>
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<td>Product Type: Climatologically Based Controller</td>
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</table>

**Product Description:** Irritrol Total Control TC6IN-R controller tested 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.

**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 protocols may be viewed at [www.irrigation.org](http://www.irrigation.org)*

### Irrigtron Total Control with Climate Logic Kit  SWAT™ Performance Summary

#### Irrigation Adequacy

- **Minimum of 6 test zones:** 100%
- **Maximum of 6 test zones:** 100%
- **Mean/Average of 6 test zones:** 100%

**Irrigation Adequacy** 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.

#### Irrigation Excess

- **Minimum of 6 test zones:** 0%
- **Maximum of 6 test zones:** 7.9%
- **Mean/Average of 6 test zones:** 4.5%

**Irrigation Excess** 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 Total Control with Climate Logic Kit**

<table>
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<tr>
<th>Installation</th>
<th>Data Source</th>
<th>Data Link</th>
<th>Initial Purchase</th>
<th>Additional Hardware</th>
<th>Additional Fees</th>
</tr>
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<tr>
<td>New or existing Total Control-R (Also-B units w/ update) or Toro Custom Command™</td>
<td>Onsite sensors transmit daily weather information (solar and temperature)</td>
<td>Wireless communication up to 1000 feet line of sight signal range.</td>
<td>Climate Logic Kit includes weather sensor/transmitter and receiver module. Rain/freeze interruption</td>
<td>Optional remote control.</td>
<td>None</td>
</tr>
</tbody>
</table>

**Additional Features**

**Zones**

- **Irritrol Total Control, 48 Stations**
- **Toro Custom Command, 6-48 Stations**

**Time of Day**

- Capability to independently restrict the time of day for watering in each of four programs.

**Day of Week**

- Capability to independently set any day(s) of the week, 1-31 skip days, odd/even date for each of four programs.

**Other**

- 10-year historical weather database w/SD card (included)
- Site specific customization by zip code or latitude/longitude
- Wireless weather sensor interfaces with multiple receivers
- Adjustable rain delay (0-3 days) following rain event
- Receiver module displays two years of on-site adjustments.
- Receiver module permits “No Watering Allowed” override

**If Data Link is Discontinued**

Visual alarm will display on receiver’s LCD, 10-year, site specific historical average will be used until on-site weather transmissions re-establish. Existing rain/cold weather interruptions remain in effect per receiver module settings.