Irrigation Association
6540 Arlington Boulevard
Falls Church, VA 22042
Tel: 703-536-7080
www.irrigation.org

Smart Water Application Technology™ (SWAT™) Performance Report

Testing Agency: Center for Irrigation Technology **www.californiawater.org**

Product: ET Water Hermit Crab

Product Type: Climatologically Based Controller

Product Description: Add-on unit converts new or existing conventional controller to become a smart controller through a remote access port. (Tested with Rain Bird SST600i 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**

ET Water Hermit Crab SWAT™ Performance Summary

Irrigation Adequacy	Irrigation Excess
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.	**Minimum of 6 test zones: 0%** **Maximum of 6 test zones: 0%** **Mean/Average of 6 test zones: 0%** **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 #78 Los Angeles County Southern District near Pomona, CA during the test period.

Product Detail Supplied by Manufacturer

ET Water Hermit Crab **www.etwater.com**

Installation	Data Source	Data Link	Initial Purchase	Additional Hardware	Additional Fees
An add-on interface that works with a new or existing AC controller	9000 professional weather stations across US provide local daily weather and rainfall data	Wireless cell modem	Purchase price includes device, connector cable and first year's service fee	❑ Rain Switch compatible	Annual data service fee. Optional service fee for Quick Draw mobile control.

Additional Features

Zones	Time of Day	Day of Week	Other	If Data Link is Discontinued
Supports up to 48 stations	User specifies the time of day irrigation can begin and end or specifies a time of day when irrigation cannot occur.	Watering is scheduled on an adjusting interval or can set designated days. Will comply with odd/even or day of week regulations.	❑ Full remote management through ET Water web application. ❑ ET Water platform can manage multiple controllers of various brands at multiple sites on single account ❑ Email alerts with changes made at controller, missed communication, rain sensor status. ❑ Made in USA	Control of the irrigation schedule reverts to the host controller.