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Smart Water Application Technologies (SWAT) Performance Report

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

Product: SMG Superior Controls Sterling 8 Controller w/Water2Save

Product Type: Climatologically Based Controller

Product Description: The Sterling 8 Controller in the Sterling Series, enabled with Look-Ahead ET™ technology by Water2Save, uses a transparent, 2-way wireless module to provide remote proactive weather scheduling, runtime monitoring and performance savings tracking (requires additional fees).

SWAT Protocol*: Turf and Landscape Equipment Climatologically Based Controllers 7th Draft Testing Protocol (Nov. 2006)
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

SMG Superior Controls Sterling 8 Controller w/Water2Save SWAT Performance Summary

Irrigation Adequacy	Irrigation Excess
Minimum of 6 test zones: 79.5% Maximum of 6 test zones: 100% Mean/Average of 6 test zones: 92.9% 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 #83 Santa Rosa, Sonoma County during the test period.

Product Detail Supplied by Manufacturer

SMG Superior Controls Sterling 8 Controller w/Water2Save www.superiorcontrolsco.com

Installation	Data Source	Data Link	Initial Purchase	Additional Hardware	Additional Fees
Replace existing controller or install on a new landscape.	SWAT tested with wireless Internet link to CIMIS weather station #83.	Wireless digital data network	Includes controller and wireless modem for 2-way data communications.	<input type="checkbox"/> Pedestal <input type="checkbox"/> Lightning protection <input type="checkbox"/> Lighted keypad	Water2Save water management services (888-H2O-LINK) with savings performance guarantee

Additional Features

Zones	Time of Day	Day of Week	Other	If Data Link is Discontinued
Available with 4, 8, 12, 18, 24, 30 and 36 stations.	Capable of restricting the time of day for watering to user-defined watering window.	Capable of restricting watering days by any combination and custom programming.	<input type="checkbox"/> Look-Ahead ET™ is a trademark of Water2Save featuring a patented method of proactively adjusting irrigation schedules using ET data and forecasted weather (www.water2save.com).	Defaults to historical weather factors in memory if data link is interrupted prior to reconnection