6540 Arlington Boulevard
Falls Church, VA 22042

Tel: 703.536.7080
www.irrigation.org

Smart Water Application Technologies (SWAT) Performance Report

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

Product: Hunter Solar Sync connected to Hunter Pro-C Conventional (PCC) controller

Product Type: Climatologically Based Controller

Product Description: The Hunter Solar Sync on-site ET sensor gathers solar and temperature data to calculate ET, watering requirements and seasonal adjustments. The Solar Sync module connects directly to Hunter Pro-C, PCC and ICC controllers (PCC, six-station tested).

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**

Hunter Solar Sync 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: 20.2%** **Mean/Average of 6 test zones: 7.55%** **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 during the test period.

Product Detail Supplied by Manufacturer

Hunter Solar Sync **www.hunterindustries.com**

Installation	Data Source	Data Link	Initial Purchase	Additional Hardware	Additional Fees
Install on new or existing landscape with approved Hunter controller.	Solar Sync on-site sensor monitor.	Direct low voltage wire pair or wireless.	Solar Sync is an optional upgrade component for select Hunter controllers.		None

Additional Features

Zones	Time of Day	Day of Week	Other	If Data Link is Discontinued
Controller dependent.	Capable of restricting watering during selected time of day.	Controller-based function.	❑ Built-in Quick Response feature reacts to passing showers ❑ Integrated Rain-Clik shuts off system during rain ❑ Integrated Freeze-Clik shuts down system during freezing conditions ❑ Includes 40 ft. of wire, metal mounting arm and metal gutter mount for sensor installation	If Solar Sync sensor link is discontinued, it may be used as a standard irrigation controller.