

Smart Water Application Technology™ (SWAT™) Performance Summary

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

Product: Hunter Solar Sync Module (connected to Hunter PCC-600 controller)

Product Type: Climatologically Based Controller

Product Description The Hunter Solar Sync Module and sensor gathers solar and temperature data to calculate ET, watering requirements and seasonal adjustments. The Solar Sync module connects directly to Hunter Pro-C, ICC and I-Core 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 protocols may be viewed at www.irrigation.org

Hunter Solar Sync Module SWAT™ Performance Summary

Irrigation Adequacy	Irrigation Excess
<p>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.</p>	<p>Minimum of 6 test zones: 0% Maximum of 6 test zones: 12.2% Mean/Average of 6 test zones: 4.3% 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.</p>

Product Detail Supplied by Manufacturer

Hunter Solar Sync Module www.hunterindustries.com

Installation	Data Source	Data Link	Initial Purchase	Additional Hardware	Additional Fees
Conventional controller with plug-in module	On-site solar, temperature and rainfall sensor	Hard wired (Wireless version available)	Purchase price includes Solar Sync sensor and module	<input type="checkbox"/> Rain Switch <input type="checkbox"/> Temperature Sensor <input type="checkbox"/> Solar Sensor	None

Additional Features

Zones	Time of Day	Day of Week	Other	If Data Link is Discontinued
Pro-C= 3-15 sta. ICC = 8-32 sta. I-Core= 6-42 sta.	Controlled by host controller	Controlled by host controller	<input type="checkbox"/> The module interface with the controller modifies the user defined peak demand schedule and makes daily adjustments. <input type="checkbox"/> Non-volatile memory <input type="checkbox"/> With temperature sensor, will suspend irrigation at preset temperature threshold.	The controller maintains the current schedule until the link is re-established. An error message is displayed