

Smart Water Application Technology™ (SWAT™) Performance Report
Testing Agency: Center for Irrigation Technology www.californiawater.org
Product: DIG Leit 2 ET/Leit ET WWS/Leit RC2ET handset
Product Type: Climatologically Based Controller
Product Description: Three 2-station solar powered controllers connected to solar powered weather station and programmed with LEIT RC2ET radio remote control handset.

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

DIG Leit 2 ET/Leit ET WWS SWAT™ Performance Summary

Irrigation Adequacy	Irrigation Excess
Minimum of 6 test zones: 99% Maximum of 6 test zones: 100% Mean/Average of 6 test zones: 99.7% 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 #80 Fresno State, Fresno County during the test period.

Product Detail Supplied by Manufacturer
DIG Leit 2 ET/Leit ET WWS/Leit RC2ET Handset www.digcorp.com

Installation	Data Source	Data Link	Initial Purchase	Additional Hardware	Additional Fees
New or retrofit solar powered 2-station controller compatible with most name brand valves.	On-site solar powered weather station measures solar, wind, temperature, humidity & rain.	Wireless radio communication up to 350 feet line of sight	2-station controller, wireless weather station and remote control handset	<input type="checkbox"/> Valve adapters for DC latching solenoids <input type="checkbox"/> Mounting brackets for controller solar panel	None

Additional Features

Zones	Time of Day	Day of Week	Other	If Data Link is Discontinued
2- station controller units can be combined up to 99 controllers (198 stations)	Capable of restricting watering during selected time of day	Capable of restricting water days or months by selection, restriction or interval	<input type="checkbox"/> Energy stored in long-life non-battery capacitors allowing operation day or night <input type="checkbox"/> Non-volatile memory <input type="checkbox"/> Hourly calculation of site ET <input type="checkbox"/> With weather station, can suspend irrigation at owner designated rain, temperature or wind thresholds. <input type="checkbox"/> Environmentally friendly manufacturing in USA <input type="checkbox"/> Can view status and history <input type="checkbox"/> Six languages	Controller will default to the programmed irrigation schedule until communication is restored. If solar panel does not charge, no irrigation will initiate.