

Weather Station System



Product Description

The Weather Station System is designed to measure and record various weather parameters and calculates an Evapo-Transpiration (ET) value to integrate with the WaterOptimizer controller for operating the WaterOptimizer in weather mode. The Weather Station System is available as standard package or customized per your requirements.

Benefits

- On site real weather data for updating Smart irrigation Control System
- Easy installation and maintenance
- Durable modular design
- Solid state sensors, with no moving parts.

Applications

- Commercial Irrigation Systems
- Golf Courses
- Roadway / Highways / Median Landscape Irrigation
- Agriculture

Weather Sensors

The weather station is equipped with multiple sensors to measure and record:

- Wind Speed - Ultrasonic
- Wind Direction - Ultrasonic
- Air Temperature - Capacitive ceramic
- Relative Humidity - Capacitive thin-film polymer
- Barometric Pressure - Capacitive Silicon
- Solar Radiation - Silicon pyranometer
- Rain Gauge – Piezoelectric
- Evapo-transpiration (ET)

Weather Station System Specifications	
Temperature Range	-40 to +122°F (-40 to +50°C)
I/O Communications	RS-232 and Wireless RF
Wireless Frequency	916 MHz
Power Requirement	Fully Solar Powered
Battery Type and Capacity	2.9 AHr Lead-Acid GelCel
Charging Voltage	16 to 22 VDC
Current Drain	10 mA w/o heater 1.1 A with heater
Mounting	Pole Mount with Tripod

Weather Sensor Range Specifications	
Wind Speed	-60 to +140F (-52 to +60 C)
Wind Direction	0-360 deg
Air Temperature	-60 to +140°F (-52 to +60°C)
Relative Humidity	0-100%
Barometric Pressure	17.72-32.48 in Hg (60-110 kPa)
Solar Radiation	0 to 1000 W/m ²
Rain Gauge	0 to 7.87 in/hr (0 to 200 mm/hr)