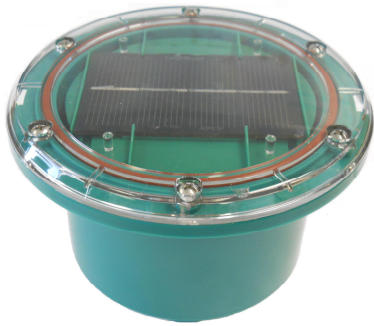


Wireless Sensor and Valve Hub



Product Description

The Sensor and Valve Concentrator leverages RF technology from the WaterOptimizer Irrigation Controller to obtain real-time soil moisture sensor measurements wirelessly. This product is also designed to open/close DC-Latching type irrigation solenoid valves wirelessly from a WaterOptimizer Irrigation Controller.

Benefits

- Eliminates the need and cost for field wiring of soil moisture sensors from irrigation controller to the location of the sensor.
- Eliminates the need and cost for battery operated irrigation controllers for DC-Latching type solenoid irrigation valves.
- Reduces overall installation time for soil moisture sensor based systems

Applications

- Residential/Commercial Irrigation Systems
- Golf Courses
- Agriculture
- Retrofit of Battery Operated Irrigation Controllers
- Retrofit or replace 2-Wire irrigation systems

Features

- Connect up to four (4) WaterOptimizer Soil Moisture Sensors
- Connect up to four (4) DC-Latching type solenoids
- Obtain real-time soil moisture sensor readings at the irrigation controller or via the web – all wirelessly
- Open/close DC-latching solenoids wirelessly
- Snaps into standard 6" irrigation valve box
- Operates fully on solar power or can be powered via auxiliary DC power supply
- High capacity NiMH rechargeable battery for operation during non-sunlight hours
- Equipped with onboard temperature sensor to hibernate during snowing/cold weather

Electrical Specifications	
Auxiliary Input Power	5-24 VDC @ 2.0 A
Latching Valve Output Power	14 VDC @ 1.4 A
Moisture Sensor Input	4-20 mA at 24 VDC
Battery Type	Rechargeable Nickel-Metal Hydride (NiMH) cells
Sensor/Valve Wire	5-Pair, 22 AWG Solid Copper
Auxiliary Power Wire	4-Pair, 19 AWG Solid Copper
Hours of operation without sunlight ⁽¹⁾	Ten (10) Days
Operating Temperature	-5° C to 45° C

(1) Based on 8 hours of irrigations per day

Mechanical Specifications	
Outer Housing Material	Acrylonitrile butadiene styrene (ABS)
Top Lens Material	Clear Polycarbonate Lexan UV Stabilized
Overall Diameter (D)	6.125 inches
Overall Length (L)	5.5 inches
Lower Shaft Compatibility	2" SCH. 40 PVC
Threaded Conduit Fitting	¾" NPT

