

## WaterOptimizer Soil Moisture Sensor



### Product Description

The WaterOptimizer soils moisture sensor is a dielectric moisture sensor that measures soil moisture. The soil moisture sensor is calibrated to operate in all soil types from sand to clay.

### Benefits

- Measures soil moisture based on volumetric water content for intelligent irrigation controls
- Suitable for direct burial
- Can be wired up to 1,000 feet away from the WaterOptimizer irrigation controller
- Integrates with WaterOptimizer Wireless Sensor Hub to obtain soil moisture measurements wirelessly
- No maintenance required

### Applications

- Residential Irrigation
- Commercial Irrigation
- Drip Irrigation
- Agriculture
- Athletic Fields
- Golf Course Irrigation Systems

### Sensor Measurement Specifications

Type	Volumetric Water Content (VWC)
Range (Typical)	0 - 40% VWC
Resolution	1%
Accuracy	± 3%
Output	Current linearly related to VWC
Minimum measurement time	10 ms
Soils	All types; Coarse sand to clay
Typical Readings	Air ~ 6 ma Dry Soil ~ 8 ma Saturated Soil ~ 20 ma

### Electrical Specifications

Operating Temperature	-40 to +60° C
Interface	4-20 mA, 2-wire analog transmitter
Supply Voltage	Line powered 7-36 Volts DC
Protection	Over-voltage and reverse polarity protected
Cable Size	22 AWG (24 AWG drain wire)
Cable Outer Jacket	Black PVC, with rodent repellent
Ratings	UL listed NEC CM or CL3; Sunlight and Moisture resistant
Probes	Copper traces sealed between epoxy-impregnated fiberglass