



Soilwatch 10

January 2018

Description:

SoilWatch 10 is a soil moisture sensor which allows you to measure relative water content in the soil. It's far more superior to resistive soil moisture sensors. In our sensor design, there are no exposed electrodes which corrode within few weeks. Whats more the reads will almost not drift over time or with temperature changes. Our sensor will give the same readings regardless of supply voltage. Sensor design makes it waterproof and weatherproof. It can be buried in soil for an extended period of time without adverse effects on accuracy.

Features:

- Accurate
- Easy to use
- 75Mhz capacitive sensor
- Waterproof and weatherproof
- Will last a lot longer than resistive soil moisture sensors

Applications:

- Irrigation management
- Soil moisture monitoring

Specification:

Voltage: 2.8 - 5.0V (absolute maximum 5.5V) - for 1.1V Output Version
Output: 0 - 1.1V (approximately) - for 1.1V Output Version

Voltage: 3.1 - 5.0V (absolute maximum 5.5V) - for 3V Output Version
Output: 0 - 3V (approximately) - for 3V Output Version

Current: ~24mA

Temperature drift: Usually less than 5mV

Operating temperature: 2 - 45 degree C

Dimensions: 170x25x25mm

Weight: 52g

Cable: 1.5m



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Connections:

- Brown - VCC (+)
- Green - VDD (-)
- White - Output

RoHS

Our sensors are compliant to the Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Changelog

August 2017 - First version of this document.

January 2018 - Added specification for 3V output version of this sensor. Added RoHS compliance statement.