

**Soil Moisture & Temperature & EC Sensor  
with anti-corrosion probe  
S-Temp&VWC&EC-02A**





## PRODUCT DESCRIPTION

This S-Temp&VWC&EC-02A soil moisture & EC & temperature sensor is provided with high accurate and high sensitive. It is an important tool to observe and study the occurrence, evolution, improvement and the dynamics water of saline soil. By measuring the dielectric constant of the reaction of soil, soil direct stable real moisture content. This S-Temp&VWC&EC-02A sensor can measure the volume of soil moisture. The soil moisture measurement method is in line with international standards at present. Apply to the soil moisture monitoring, scientific experiment, water-saving irrigation, greenhouse vegetables, flowers, grass, soil, plant cultivation, measured speed of sewage treatment, grain storage, greenhouse control, precision agriculture.

## FEATURES

- Soil moisture content, electrical conductivity and temperature all in one
- One solution can also be used for fertilizer, and other nutrient solution conductivity matrix
- Electrode using special treatment of the alloy material, can withstand a strong external impact, not easy to damage
- Completely sealed, acid and alkali corrosion, can be buried in the soil or directly into the water for long-term dynamic testing
- High precision, fast response, good compatibility, the probe insert design to ensure accurate measurement, reliable performance
- Perfect protection circuit

## APPLICATION

- Water-saving irrigation
- Scientific Experiments
- Greenhouse Management
- Horticulture and Gardening
- Golf turf Management
- Smart Agriculture
- Other Environmental Monitoring Scenarios

## SPECIFICATIONS

### PRODUCT MODEL

Model	S-Temp&VWC&EC-02A
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### GENERAL PARAMETER

Interface	RS-485
Protocol	MODBUS-RTU RS485
Power Supply	3.6 ~ 30V DC
Current Consumption	6mA@24V DC (quiescent dissipation)
Operating Temperature	-40 °C to +85 °C
The material of the probe	Anti-corrosion special electrode
Sealing Material	The black flame retardant epoxy resin
IP Rating	IP68
Cable Length	5 meters
Installation	All buried or probe into all of the measured medium

### ELECTRICAL CONDUCTIVITY

Range	0 ~ 10000 $\mu\text{s/cm}$
Accuracy	$\pm 3\%$
Resolution	10 $\mu\text{s/cm}$
Temperature Compensation	Built in temperature compensation sensor, range 0-50°C

### SOIL TEMPERATURE

Range	-40 °C to +80 °C
Accuracy	$\pm 0.5$ °C
Resolution	0.1 °C



## SOIL MOISTURE

Range	From completely dry to fully saturated (0% - 100%)
Accuracy	±3% (0~53%) ±5% (53~100%)
Resolution	0.03% (0~50%); 1% (50~100%)