

Soil Moisture FDR Sensor



This Soil Moisture sensor is a FDR (frequency domain reflectometry) based sensor that is used to measure Soil volumetric water content (VWC) and temperature. The sensor consists of highly corrosion resistant electrodes. This sensor is designed to be used for portable as well permanent installations placed in the soil

Specifications of Sensor

- The signal output type: RS 232 modbus
- Power supply voltage: 5 V/DC
- Response time (moisture and temperature): Less than 1 second
- Soil moisture measurement range: 0-100% volumetric moisture content
- Soil moisture measurement accuracy: 0-53% range is $\pm 3\%$; 53-100% range is $\pm 5\%$

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- Soil temperature measuring range: -40~80°C
- The measurement precision of soil temperature: $\pm 0.5^{\circ}\text{C}$
- Protection grade: IP68
- Operating environment: -40~85°C
- The storage environment: -40~85°C
- The material of the probe: Food grade stainless steel
- Sealing material: The black flame retardant epoxy resin
- Installation: All buried or probe into all of the measured medium

Applications

- Irrigation Scheduling
- Water Table Monitoring
- Leak Detection
- Agronomy Research
- Environmental Monitoring
- Anywhere you need to know when or if the soil moisture status is changing.

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