

Soil Temperature and Humidity + EC + pH sensor



1. Specification

Measurement parameters : Soil temperature, soil volumetric water content, soil conductivity (EC value), soil pH

Units of measurement : $^{\circ}\text{C}$; % (m^3/m^3) ; $\mu\text{S}/\text{cm}$; pH

Temperature range : $-30\sim 70^{\circ}\text{C}$ (Customizable $0\sim 50^{\circ}\text{C}$ or any other range)

Moisture range : $0\sim 100\%$ (Selectable ange include 30% , 50% etc. or any other range)

Conductivity range : $0\sim 2000\ \mu\text{S}/\text{cm}$, $0\sim 10000\ \mu\text{S}/\text{cm}$, $0\sim 20000\ \mu\text{S}/\text{cm}$

pH range : $3\sim 10\text{pH}$

Accuracy : $\pm 0.2^{\circ}\text{C}$; $0\sim 50\%$ (m^3/m^3) within the range $\pm 2\%$ (m^3/m^3) ; $\pm 2\%$; $\pm 0.2\text{pH}$

Resolution : 0.1°C ; 0.1% ; $1\ \mu\text{S}/\text{cm}$; 0.01pH

Output Singal : RS485 (Standard Modbus-RTU Protocol , Default Modbus ID : 01)

Power supply : $7\sim 24\text{V DC}$

Operating Temp. : $-30^{\circ}\text{C}\sim 70^{\circ}\text{C}$

Stability time: 3 seconds response time < 1 second after power-on

2. Physical Parameters

Probe Material: 316L Stainless Steel

Sealing material: ABS engineering plastic, epoxy resin, waterproof grade
IP68

Cable specification: Standard 2 meters (other cable lengths can be customized, up to 1200 meters)

Dimensions

