

SPEKIFIKASI SENSOR SOIL

Sensor ini digunakan untuk mengukur kelembapan tanah, Electrical Conductivity (EC), dan suhu. Perangkat ini memiliki bodi berbahan plastik dengan batang sensor yang dapat langsung ditancapkan ke dalam tanah serta dirancang untuk stabilitas pengukuran jangka panjang. Sensor mendukung keluaran RS485, tegangan analog, dan arus analog, serta cocok digunakan untuk penelitian, irigasi, rumah kaca, dan pertanian pintar (smart farming).

Fitur dan Keunggulan :

- Accuracy: $\leq \pm 0.5\%$ F.S. Wide working temperature scope.
- Advanced digital temperature compensation.
- Excellent resistance against impact, overload, shock and erosion.
- Highly-efficient lightning protection and strong RFI & EMI resistance.
- Impact resistance and disturbance. 1.5 times range standard overload.
- 3 times range burst pressure.
- CE approving.



Spesifikasi Teknis :

Output Interface	Analog Voltage 0-2V (Output resistance ~0ohm)	Analog Current 4-20mA (Load Resistor<500ohm)	RS485 Modbus-RTU
Power Supply	3.6-30V/DC	12-30V/DC	3.6-30V/DC
Power Consumption	6mA@24V DC	50mA@24V DC (with 2*20mA output signal)	6mA@24V DC
Soil Moisture Measurement	Range:0-50%,0-100% Resolution:0-50%:0.03%,50-100%:1% Accuracy:0-50%:3%,50-100%:5%		
EC Measurement	Range: 0-5000us/cm, 10000us/cm, 20000us/cm Resolution: 0-10000us/cm, 10us/cm; 10000-20000us/cm, 50us/cm Accuracy: 0-10000us/cm, $\pm 3\%$; 10000-20000us/cm, $\pm 5\%$ EC temperature compensation: 0-50°C		
Temperature Measurement	Range: -40~80°C, Resolution:0.1°C, Accuracy: $\pm 0.5^\circ\text{C}$		
Measurement Technique	Moisture by FDR and EC by AC excitation		
IP Ratings	IP68		
Operating Temperature	-40~85°C		
Sensor Rod	Stainless steel		
Sensor Sealed	Epoxy resin		
Installation	Surface or buried installation		
Cable Length	2 meters or Customize		
Dimension	44*15*146mm		