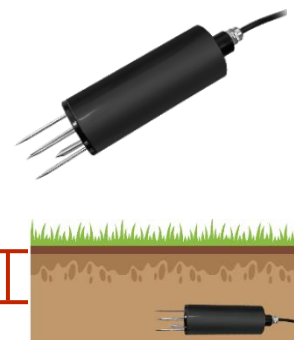


[Features]

- Multi-parameter soil sensor capable of measuring soil temperature, moisture, electrical conductivity, and salinity simultaneously
- Uses frequency domain reflectometry (FDR) to measure moisture, offering fast, accurate, and stable readings, unaffected by fertilizers or metal ions in the soil
- Sensor probe made of S316 stainless steel, ensuring high stability and reliability
- Moisture output can be switched between "Gravimetric Water Content (default)" and "Volumetric Water Content."
- IP68 dustproof and waterproof rating, suitable for use in various harsh environments
- Supports standard Modbus RTU protocol for global IoT connectivity



Instructions:
Insert the probe horizontally into the soil to be measured, generally at a depth of 20 cm, and adjust the depth according to the measurement requirements.

[Applications] Agriculture, Forestry, Geology, Architecture

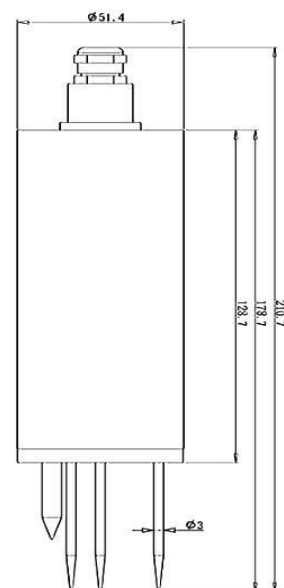
[Optional Code] SM – Code 1 - Code 2

Code 1	Signal	Code 2	Connector
485	RS-485	N	2.5 meters bare wire
		C	2.5 meters + quick connector
		Value	Wire length (bare wire)
		Value C	Wire length+ quick connector

[Specifications]

[Dimension]mm

Power	DC 7 ~ 30V		Power Consumption	250mW	
Sensor	Items	Temperature	Humidity	Electrical Conductivity	Salinity
	Measurement Range	-40~80 °C	Volumetric Water Content: 0~60% Gravimetric Water Content: 0~100%	0~20000 μ S/cm	10000mg/L
	Accuracy	± 0.5 °C	Volumetric Water Content: 0~35%: $\pm 3\%$ 35~60%: $\pm 5\%$ Gravimetric Water Content: 0~25%: $\pm 3\%$ 25~100%: $\pm 5\%$	$\pm 5\%$	$\pm 5\%$
	Resolution	0.1 °C	0.1%	1 μ S/cm	1 mg/L
Communication methods	RS-485Modbus RTU				
Working environment	◆Temperature :-40°C ~ 80°C ◆Humidity : $\leq$ 100 %RH				
Protection level	IP68				
Probe material	316 Stainless steel				
Weight	200g				



[Wiring diagram]

Red	Green	Black	Yellow
V+	GND	D+	D-