

SOIL MOISTURE & TEMPERATURE SENSOR



SS-SMETS is an integrated soil moisture and temperature sensor. Moisture measurement part is designed on the basis of the principle of FDR, by measuring the dielectric constant of the soil in order to measure the volume of the soil moisture content, temperature part adopts precision platinum resistance element, the product built-in drift calibration and temperature compensation circuit, can adapt to most applications. The stainless-steel probe is inserted into soil surface or soil profile to test soil moisture and temperature quickly. The probe can be permanently embedded underground and be connected to a data logger for unlimited testing.



Soil moisture & Temperature sensor can be widely applied to the soil moisture & temperature monitoring, water-saving irrigation, greenhouse control, fine agriculture, hydrology and meteorology, and other fields etc.

Features

- High stability
- High accuracy
- Fast response
- Easy installation
- Is not affected by chemical fertilizer and influence of metal ions

Technical Specifications

SS-SMETS		
Temperature	Range	-30°C-+70°C
	Accuracy	±0.3°C
Moisture	Range	0-100% (m ³ /m ³)
	Accuracy	±3%(0-50%)

Common Technical Specifications

General Specifications	Output signal	4-20mA, 0-5V, 0-2V, RS485 optional
	Response time	<1s
	Supply	5VDC, 12-24VDC
	Effective measurement area	With the centre of the probe diameter is 70mm, high 70mm cylinder
	Housing	ABS
	Dimensions	71*45*16mm (probe: 2*ø3*55mm, 1*ø4*55mm)
	Operating temperature	-40°C-+80°C
	Ingress protection	IP68
	Probe material	316L stainless steel
	Cable	2m Standard