

SOIL MOISTURE SENSOR



SS-SMS is a highly accurate and highly sensitive soil moisture measuring sensor. It works on the principle of electromagnetic pulse (FDR: Frequency Domain Reflectometry) to measure the dielectric constant of the soil. The stainless-steel probe is inserted into the soil surface or soil profile to quickly online measurement of soil volumetric moisture content. This method is the most popular method of soil moisture measurement. It can be used permanently embedded in the soil.

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

Features

- Four 316L needle probe
- High stability
- High accuracy
- Fast response
- Easy installation
- Is not affected by chemical fertilizer and influence of metal ions

Technical Specifications

SS-SMS	
Range(m ³ /m ³)	0-100%
Accuracy	±2%
Analog Output	4-20mA, 0-5V, 0-2V
Digital Output (Optional)	RS485
Response time	<1s
Response Time	< 20Sec
Effective measurement area	Effective measurement area with the centre of the diameter is 70mm, high 70mm cylinder
Housing	ABS
Dimensions	Ø50*208mm(probe: ø4*78mm)
IP Class	IP67
Operating voltage	5V, 12-24VDC
Probe material	316L stainless steel
Cable	2m Standard