

# Mottech Soil Moisture & Temperature & EC Sensor



**Mottech Soil Moisture & Temperature & EC Sensor is integrated the moisture, temperature & EC measurement**

The stainless steel probe is inserted into soil surface or soil profile to test quickly. The product with temperature compensation to ensure the accuracy of measurement. Mottech Soil Moisture & Temperature & EC Sensor is integrated the moisture, temperature & EC measurement. The stainless steel probe is inserted into soil surface or soil profile to test quickly. The product with temperature compensation to ensure the accuracy of measurement. The probe can be permanently embedded underground and be connected directly to any controller in Mottech's system via Mottech Smart Card (Version 2).

## Features and Benefits

**High precision**



**Fast response**



**Suitable for saline-alkali soil**



**Can work long-term immersion**



**Soil properties affect little**



**Directly buried in soil**



**Widely used**



## Applications



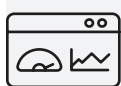
**Agriculture irrigation**



**Greenhouse**



**Grass farm**



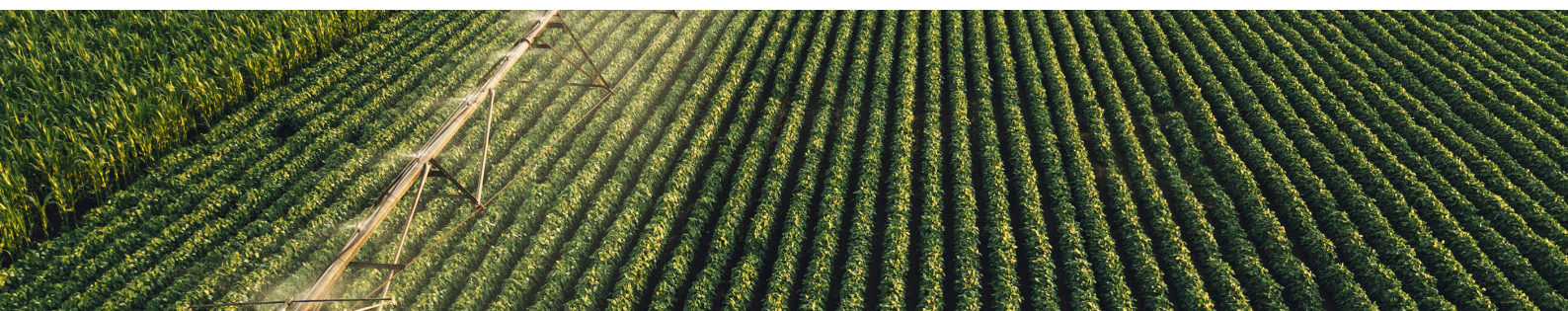
**Environment monitoring**



**Water conservation**



**Soil testing**



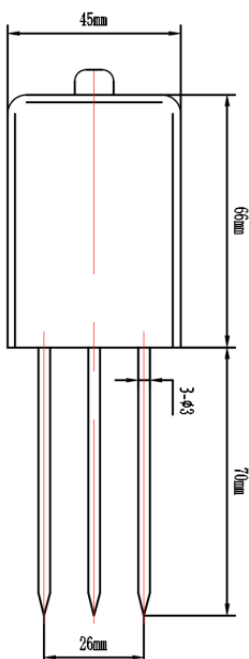
# Mottech Soil Moisture & Temperature & EC Sensor

## Technical specification

Item	Technical Specification		
	Moisture	Temperature	EC
<b>Range</b>	0-100% <sup>°m3/m3°</sup>	-30°-+70°	0-10mS/cm
<b>Accuracy</b>	±2%(0-50%) ±3%(51-100%)	±0.5°	±3%FS
<b>Output Signal</b>	RS-485, 0-2V, SDI-12		
<b>Response Time</b>	<1s		
<b>Supply</b>	5VDC, 12-24VDC		
<b>Effective measurement area</b>	With the center of the probe diameter is 70mm, high 70mm cylinder		
<b>Housing</b>	ABS		
<b>Dimensions</b>	45*15*145mm( probe:3* Ø3*70mm)		
<b>Operating Temperature</b>	-40°-+80°		
<b>Ingress Protection</b>	IP68		
<b>Storage</b>	10-60°@20%-90%RH		
<b>Probe material</b>	316L stainless steel		
<b>Code</b>	M.SENS-83-SDI		

## Dimensions

Unit: mm



## Mounting

1. Testing medium should be with uniform intensity.
2. If surface soil water content measurement, the sensor should be insert into soil vertically. Do not shake the sensor when inserted, otherwise the probe will be blended;
3. If multi-layer soil water content measurement, the sensor should be buried in the soil and parallel to the ground. Make sure the probe not be blended;
4. When removing sensors from the soil, please hold the sensor housing shell and do not forcibly pull on the cable. Soil on probes should be brushed tightly.
5. Please keep the sensor in dry & clean conditions.

