



# SM100

Soil moisture sensor



Compatible with Tempus® Air MS Single/Multi Sensors Modules (S1 and S4)

Maintaining the correct soil moisture is essential for keeping plants healthy. SM100 sensor supports you in identifying the correct irrigation scheduling so to optimize plant growth while avoiding water stress. Place SM100 sensors at multiple depths to have an accurate detection of soil humidity.

## FEATURES

- Volumetric Water (VWC) Content measurement
- Capacitance-type sensor responds immediately to changes in soil moisture content for better irrigation decisions
- Calibrated for mineral soils or soilless media
- Installs easily into 1.9 cm hole (3/4 in)
- Analog voltage proportional to excitation voltage
- Install permanently or use to take spot measurements
- Sturdy design
- Probe resistant to corrosion
- Small dimensions
- Waterproof

## SPECIFICATION

Accuracy	Soil Volumetric Water Content (VWC) 3% @ EC < 8 ms/cm
Reading range	0% VWC up to saturation
Resolution	0,1% VWC
Power supply	3 to 5V @ 6 to 10 mA
Output signal	0,5 to 1,5V for a 3V excitation Analog voltage proportional to excitation voltage
Cable length	1,8 m (extendable up to 15 m)
Dimensions of detection area	6 cm x 2 cm
Operating temperature	0,5°C to 80°C
Wiring	Red: Output voltage humidity to be connected with Tempus Air MS yellow wire (+) White: V + Excitation (from 3 to 5V regulated) to be connected with Tempus Air MS red wire Black: GND (Ground) to be connected with Tempus Air MS black wire (-)



## INSTALLATION

*It can be installed above ground or underground in both vertical and horizontal orientation*

*For accurate readings be sure to maintain good contact between the sensor and the soil.*

## Codification

Code	Description
IT-SM100	Soil moisture sensor (SM100)