

SOIL MOISTURE SENSORS

WATERSCOUT®



SM100 SOIL MOISTURE SENSOR

Place at multiple depths to help determine both when and how much to water.

- Measures Volumetric Water Content (VWC%) of soil
- Capacitance-type sensor responds immediately to changes in soil moisture content for better irrigation decisions
 - Calibrated for mineral soils or soil-less media
 - Install permanently or use to take spot measurements
 - Can be read with the FieldScout Soil Sensor Reader, WatchDog 3000, 2000, 1000 Series Stations and Pups

6460 WaterScout SM 100 Sensor - 6' (1.8m)

6460-20 WaterScout SM 100 Sensor - 20' (6m)

SMEC300 SOIL MOISTURE/EC/TEMPERATURE SENSOR

Identify situations where soil salinity is an issue or where certain moisture and temperature conditions facilitate soil-borne diseases

- Capacitance-type soil moisture sensor
- Carbon ink electrodes provide large measuring surface for electrical conductivity (EC)
- Can be read with the FieldScout Soil Sensor Reader, WatchDog 3000, 2000, 1000 Series Stations, and Pups
- Recommended placement of sensors is 10 feet separation to prevent EC interference when in the same medium
- WaterScout Calibration Device required unless using Soil Sensor Reader

6470-6 WaterScout SMEC 300 Sensor - 6' (1.8m)

6470-20 WaterScout SMEC 300 Sensor - 20' (6m)

6470CAL3V WaterScout Calibration Device

2251 Conductivity Standard, 1.41mS/cm, 250mL

PRODUCT SPECIFICATIONS

	WaterScout SM100	WaterScout SMEC300
Accuracy	3% VWC @ EC<8mS/cm	VWC: 3%, EC: ±2% Temp: ±1°F (0.6°C)
Range	0% VWC to saturation	VWC: 0% VWC to saturation EC: 0 to 10mS/cm
Temperature	NA	33°F - 175°F (0.5°C - 80°C)
Resolution	0.1% VWC	VWC: 0.1%, EC: 0.01mS/cm Temp: 0.1°F (0.1°C)
Cable Length	6' (1.8m) and 20' (6m) standard Extendable up to 50 (15m)	6' (1.8m) and 20' (6m) standard Extendable up to 50 (15m)
Power Requirements	3V to 5V @ 6mA to 10mA	3V @ 6mA to 10mA
Output	Analog voltage 0.5V - 1.5V for a 3V excitation <i>(ratiometric for other excitation voltages)</i>	Analog Voltage Time Division Multiplexed
Sensing Area	2.4" x 0.8" (2.4cm x 2cm)	2.25" x 0.75" (5.7cm x 2cm)

Soil Sensor Reader

Spot-check WaterScout SM100 and SMEC300 sensors in the field

- Reads Watermark sensors (requires separate adapter)
- Includes soft-sided case (also available separately)



Shown measuring in soil-less media made to gather immediate data.

6466 FieldScout Soil Sensor Reader

6450FSADPT Watermark Adapter for Soil Sensor Reader