



Spectrum[®]
Technologies, Inc.
"To Measure Is To Know"



SMEC 300 Soil Moisture Sensor



MONITOR SOIL MOISTURE

Tailor your irrigation and fertilization program to suit the needs of your crops

INCLUDED MEASUREMENTS

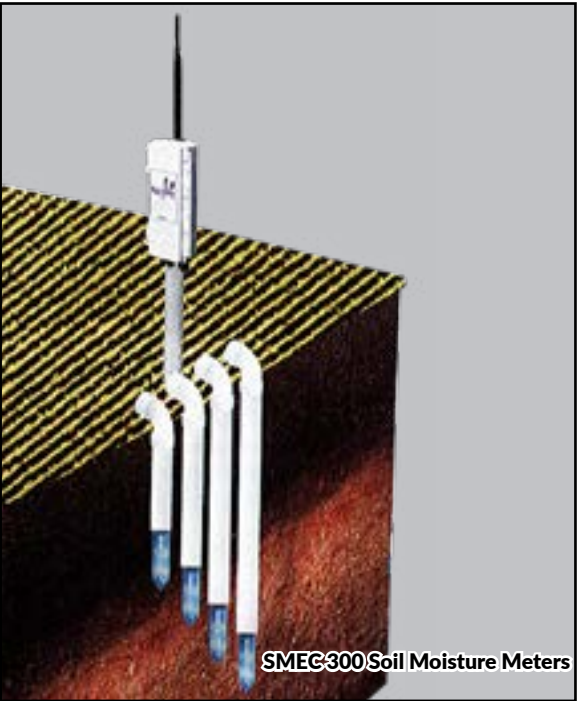
- Volumetric Water Content (VWC)
- Electrical Conductivity (EC)
- Soil Surface Temperature

FEATURES & BENEFITS

- Soil measurements in less than a second
- Carbon ink electrodes provide large measuring surface for electrical conductivity (EC)
- Affordable and accurate
- Easy, 1-step EC calibration process
- Mobile App displays data
- Compatible with the FieldScout Soil Sensor Reader, WatchDog Data Loggers and Weather Stations
- Connect up to 4 sensors per station
- View data with SpecWare software

PRODUCT SPECIFICATIONS

CHARACTERISTIC	DESCRIPTION
Cable Length	6' and 20', extendable up to 50'
Sensing Area	2.25" x 0.75"
Range	VWC: 0% VWC to Saturation EC: 0 to 10 mS/cm Temp: 33°F to 175°F (0.5°C to 80°C)
Resolution	VWC: 0.1% EC: 0.01 mS/cm Temp: 0.1°F (0.1°C)
Accuracy	VWC: 3% EC: ± 2% Temp: ±1°F (0.6°C)
Output	Analog voltage, time division multiplexed
Power	3V @ 6 to 10 mA
Connector	2.5mm stereo plug





ITEMS & INTERFACES

6470-6 **WaterScout SMEC 300 Soil Moisture Meter**
 with 6ft. cable

6470-20 **WaterScout SMEC 300 Soil Moisture Meter**
 with 20ft. cable

6466 **FieldScout Soil Sensor Reader**

6470CAL3V ***WaterScout Calibration Device**

Note:

- Not compatible with 400/200 loggers
- WatchDog Stations sold prior to 2012 must be upgraded (Call for support)

*WaterScout Calibration Device required unless using Soil Sensor Reader

STATION #	FAMILY	STATION FW VERSION*	# OF SENSORS	CHANNELS
1225,1250	Micro Station	N/A	0	Incompatible
1400,1525,1650	Micro Station	2	2	A, D
1200,1425,1450	Micro Station	2	1	D
2475	Mini Station	3.8	1	A
2450	Mini Station	3.8	2	A, B
2425	Mini Station	3.8**	3	A, B, C
2400	Mini Station	3.8**	4	A, B, C, D
2550,2700	Full Station	6.9	2	A, D
2800	Full Station	3.2	2	A, D
2900ET	Full Station	6.9	1	A

*Older Weather Stations can be upgraded depending on the model. Contact Spectrum Technologies for more details.

**2400 and 2425 Mini Stations with firmware version 3.5 support only SMEC 300 in Port A, making B/C unavailable

SpecWare Software

Download directly from Spectrum's website to view and report on the data that is most important to you.

SPECWARE 10 Basic

- Easily download, analyze and produce basic reports
- Gain back valuable time previously used to export data and perform calculations in spreadsheets
- Powerful, easy to use analysis tools
- Graph on-the-fly with an interactive graphing window
- Choose from 16 standard reports, including EFSA and NOAA
- SpecWare automatically assigns each WatchDog Station to its own "location" directory, which is appended every time new data is downloaded
- Find and use data easily with an open file management system - all data is stored in a monthly file, simplifying data sharing and exporting
- Import data files from other applications
- Export data in tab-separated text files to import into other applications, such as Excel
- International features include handling date, time, and numbers with regional formats and choice of Metric or US
- One purchase = one activation for one installation
- Support for the WatchDog 3000 Series Stations, including the NEW 3500 Models and those that are part of a Retriever and Pups network. Download data via USB flash drive or a direct connection
- Build, customize and save your most important reports
- Run evapotranspiration (ET) reports to effectively manage water use
- Add optional insect and disease models to forecast pest pressures and reduce pesticide costs and produce reports with graphs for each pest - **FREE FOR 30 DAYS WHEN YOU UPGRADE TO SPECWARE PRO!**