Soil Moisture & Temperature Probe
Model SM-105
P/N: SM-105

The SM-105 Soil Moisture & Temperature Probe uses an onboard thermistor for temperature and volumetric water content readings. This SDI-12 sensor is engineered with one main goal in mind: Accuracy. The small footprint and durability factor of this sensor are impressive to say the least, but the accuracy of the sensor sets it apart from all other soil probes.

Specifications

Volumetric Water Content (VWC):

Range:

- Mineral soil calibration: 0.0-1.0 m^3/m^3
- Soilless media calibration: 0.0-1.0 m^3/m^3
- Apparent dielectric permittivity (ε_a): 1 (air) to 80 (water)

Resolution: 0.0008 m^3/m^3 from 0%–50% VWC

Accuracy:

- Generic calibration: ± 0.03 m^3/m^3 typical
- Medium-specific calibration: ±0.02 m^3/m^3
- Apparent dielectric permittivity (ε_a): 1–40 (soil range), ±1 ε_a (unitless)
- 40–80, 15% measurement

Temperature:

Range: –40 to +60 °C

Resolution: 0.1 °C

Accuracy: ±1 °C

Measurement Volume:

Maximum: 715 mL

Physical:

Dimensions: 4.3” x 3.4” x 0.4”

Prong Length: 1.9”

Operating Temperature: -40 to 60 °C

Microcom Environmental
10948 Beaver Dam Road
Hunt Valley, MD, USA 21030
Tel: (410) 771-1070
Fax: (410) 771-0018
E-mail: sales@microcomdesign.com

Microcom Environmental
656-E Capital Circle, NE
Tallahassee, FL, USA 32301
Tel: (850) 325-1865
Email:sales@microcomdesign.com

Microcom Canada
Omnimetrix
3465 Ashby
Saint Laurent, QC H4R 2K3
Tel: (514) 684 1004
Fax: (514) 697 0400
Email:roger@omnimetrix.com

Microcom Brazil
Simtech Representacoes LTDA
Rua do Mercado 17/14 andar Centro
Rio de Janeiro, Brazil CEP 20010-120
Tel: 21 2506 5900
Fax: 21 2240 1242
E-mail: simtech@simtech.com.br