

S-SMD-M005

10HS Soil Moisture Smart Sensor

Discontinued. Call for Availability.

Measures soil moisture over a large volume of soil; integrates the field-proven 10HS Sensor and a 12-bit A/D; $\pm 3\%$ accuracy in most soils conditions, $\pm 2\%$ accuracy with soil-specific calibration.



Supported Measurements

Soil Moisture

Features

- Measures a large 1-liter volume of soil, providing a more accurate picture of average soil moisture
- Provides data directly in volumetric water content
- High-frequency (70 MHz) circuit provides good accuracy even in high-salinity and sandy soils
- Compatible with Onset stand-alone and web-based weather stations

Contact Us

Sales (8am to 5pm ET, Monday through Friday)

- Email sales@onsetcomp.com
- Call 1-508-759-9500
- In U.S. toll free 1-800-564-4377
- Fax 1-508-759-9100

Technical Support (8am to 5pm ET, Monday through Friday)

- Contact Product Support www.onsetcomp.com/support/contact
- Call 1-508-759-9500
- In U.S. toll free 1-877-564-4377

Onset Computer Corporation
470 MacArthur Boulevard
Bourne, MA 02532

10HS Soil Moisture Smart Sensor (S-SMD-M005) Specifications

Measurement range in soil: 0 to 0.570 m³/m³ (volumetric water content)

Accuracy:

±0.033 m³/m³ (±3.3%) typical 0 to +50°C (+32° to +122°F) for mineral soils up to 10 dS/m

±0.020 m³/m³ (±2%) with soil specific calibration

Resolution: 0.0008 m³/m³ (0.08%)

Soil probe dimensions: 160 x 32 x 2 mm (6.5 x 1.25 x 0.08 in.)

Weight: 190 grams (6.7 oz)

Decagon probe part no.: 10HS

Sensor operating temperature:

0° to +50°C (+32° to +122°F). Although the sensor probe and cable can safely operate at below-freezing temperatures (to -40°C/F) and the smart sensor tube (the white portion of the sensor cable that houses the electronics) can be exposed to temperatures up to +70°C (+158°F), the soil moisture data collected at these extreme temperatures is outside of the sensor's accurate measurement range. Extended temperatures above +50°C (+122°F) will decrease logger battery life when using for the S-SMD-M005 smart sensor.

Volume of influence: 1 liter (33.8 oz)

Sensor frequency: 70 MHz

Bits per sample: 12

Number of data channels: 1

Measurement averaging option: No

Cable length available: 5 m (16 ft)

Length of Smart Sensor network cable: 0.5 m (1.6 ft)



- The CE Marking identifies this product as complying with all relevant directives in the European Union (EU)