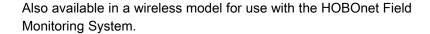
ONSET

S-SMD-M005

10HS Soil Moisture Smart Sensor

Measures soil moisture over a large volume of soil. This sensor integrates the field-proven 10HS Sensor and a 12-bit A/D, providing ±3% accuracy in most soils conditions, and ±2% accuracy with soil-specific calibration. The 10cm probes measure soil moisture over a larger volume of soil, helping to average out any soil variability. Readings are provided directly in volumetric water content. The sensor's high-frequency design minimizes salinity and textural effects and gives it a wide measurement range.





Key Advantages:

- 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

HOBO S-SMD-M005 Sensor Specifications

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

Accuracy:

 ± 0.033 m /m ($\pm 3.3\%$) typical 0 to $+50^{\circ}$ C ($+32^{\circ}$ to $+122^{\circ}$ F) for mineral soils up to 10 dS/m

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

Resolution: 0.0008 m /m (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)

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

Contact Us

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

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- In U.S. toll free 1-800-564-4377
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- Contact Product Support www.onsetcomp.com/support/contact
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