

W-SMC

HOBOnode Soil Moisture - Wireless Sensor

Discontinued

HOBOnode sensors monitor temperature and soil moisture conditions and wirelessly transmit the data back to your computer. Easy to deploy soil moisture wireless sensor

[View upgrade options](#)



Supported Measurements

Soil Moisture

Features

- **Fast, easy deployment** - sensor's compact size, integrated solar-rechargeable battery makes deployment a snap.
- **.0 to 100% soil moisture range**
- **Software provides real-time graphs and alarms** to cell phones or local PC; data can be exported for use in other programs.
- **150 to 300 m (500 to 1000 ft) range with clear line-of-sight.** Repeaters are available to extend range.
- **Research-grade reliability and accuracy**
- Complete system requires: Receiver, Sensor, HOBOnode Viewer software. A Repeater is required for greater distances.(sold separately)
- Includes bracket for convenient mounting on pole or stake

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

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Bourne, MA 02532

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

HOBOnode Soil Moisture - Wireless Sensor (W-SMC) Specifications

- **Measurement Range:** 0 to 100% volumetric water content (m^3/m^3)
- **Accuracy** - 3.1% (m^3/m^3)
- **Resolution** - 0.07% (m^3/m^3)
- **Sample rate** - 1 reading per minute
- **Battery life** - 1 yr typical w/o charging; 3 yrs typical w/ solar charging
- **Size** - 16.5cm x 5cm; 3.7m cable to sensor (6.5" x 2"; 12' cable)
- **Memory** - None in HOBOnodes; requires [HOBOnode Viewer](#) to be running for data storage.
- **Transmission range** - 150 to 300 m (500 to 1000 ft) range with clear line-of-sight. Any obstructions such as vegetation or walls will reduce range significantly.
- **Wireless Data Standard** - IEEE 802.15.4, 2.4 GHz ISM band (license free worldwide) - [Click here for local RF Regulation Compliance](#)
- **Operating Range** -20° to 50°C (-4° to 122°F) - with optional [Lithium Batteries](#): -40° to 50°C (-40° to 122°F) - Use optional Lithium Batteries in low-temperature and high-temperature applications.
- **Environmental rating** - HOBOnodes and Receiver: NEMA 6P, IP68; Repeater: NEMA 4X
- **Setup/Installation:**
 - recommend 8' x 1-1/4", schedule 40 PVC pipe for mounting (purchase through local building supply store)
 - for windy locations we also recommend our Guy Wire Kit ([M-GWK](#)) and ½" Stake Kit ([M-SKA](#))
 - note that the HOBOnodes should not be mounted on or near metal surfaces.