

## Quick Start for the HOBO® MX2306 and MX2307 Data Loggers

**⚠ WARNING:** Risk of personal injury is present. Sensor needle points are extremely sharp and can puncture skin. Handle with care.

- 1
  - Download HOBOnnect® to a phone or tablet from the App Store® or Google Play™.
  - Download HOBOnnect to a Windows® computer from [www.onsetcomp.com/products/software/hobonnect](http://www.onsetcomp.com/products/software/hobonnect).
- 2 Press the button on the logger to wake it up. Open the app. Enable Bluetooth® in your device settings if prompted.
- 3 Tap Devices in the app. Tap the logger in the app to connect to it. (Press the button on the logger again to bring it to the top of the list if you are working with multiple loggers.) If the logger does not appear, make sure it is within range of your phone, tablet, or computer.
- 4 Tap  to set up the logger. Choose your logger settings and then tap  to save the settings to the logger.
- 5 The logger will begin logging data based on the settings you selected in the app. Press and hold the button on the logger for 4 seconds if you set it up to start logging with a button push. Follow the soil moisture sensor deployment guidelines and installation instructions below to deploy the logger.
- 6 To offload data from the logger to your device, tap Devices and press the button on the logger to wake it up (if necessary). Connect to the logger and tap . To view or export the data, tap HOBOnnect Files and select the file. (If you don't see the file list, tap  at the top.) To export and share the data, tap  (if applicable), and then tap .

### Soil Moisture Sensor Deployment Guidelines

- For detailed installation instructions and guidelines, see the product manual at [www.onsetcomp.com/support/manuals/26456-mx2306-and-mx2307-manual](http://www.onsetcomp.com/support/manuals/26456-mx2306-and-mx2307-manual) or scan the QR code below.
- When creating the hole to install the sensor, avoid interfering objects. Installation near metal objects can cause measurement error. Large objects like roots or rocks could potentially bend the needles.
- The sensor may be positioned in any direction. However, there is less restriction to water flow when the sensor body is placed in a vertical position as shown at right. A vertical position will also integrate more soil depth into the soil moisture measurement. Installing the sensor with the sensor body in a horizontal position will provide measurements at a more discreet depth.
- Avoid having any metal between the sensor and the ferrite core because it can interfere with VWC measurements.
- When installing sensors in rocky soils, use care to avoid bending sensor needles.
- Minimize air gaps around the sensor. Air gaps around the sensor needles will result in low readings of soil moisture.
- Use conduit to protect the cable against damage from animals, lawn mowers, exposure to chemicals, etc.
- Secure any loose cable with cable ties.



### Sensor Installation Instructions

1. Auger or dig a hole to the desired sensor depth.
2. Carefully insert the soil moisture sensor in the hole and push the sensor so that the needles are inserted into undisturbed soil on the side of the hole. Check that the sensor is firmly seated.
3. If using the temperature sensor, insert that into the side of the hole, at least 2 cm (1 inch) from the soil moisture sensor and ferrite core.
4. Secure the cable(s) and install conduit before backfilling the hole.
5. Carefully return the soil to the hole, packing it back to its native bulk density. When backfilling the hole, be careful to not hit the ferrite core as this could pull the sensor from the soil.



For specifications, complete mounting guidelines, and other details about this logger, refer to the full product manual.

**⚠ WARNING:** Do not cut open, incinerate, heat above 85°C (185°F), or recharge the lithium battery. The battery may explode if the logger is exposed to extreme heat or conditions that could damage or destroy the battery case. Do not dispose of the logger or battery in fire. Do not expose the contents of the battery to water. Dispose of the battery according to local regulations for lithium batteries.