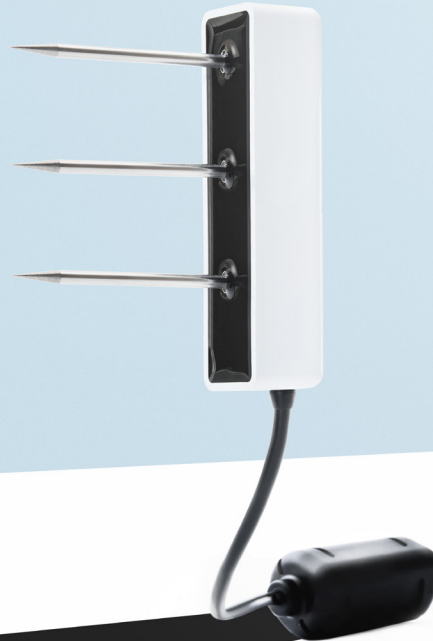




**METER**

# **TEROS 12**

**SOIL MOISTURE + ELECTRICAL  
CONDUCTIVITY (EC) + TEMPERATURE**



# TEROS 12 QUICK START

## Preparation

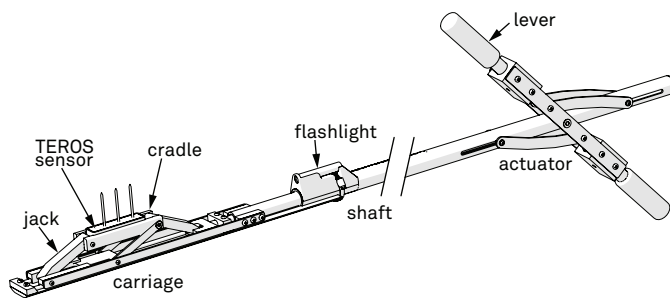
Inspect and verify Teros 12 components. To validate both sensor-to-sensor variability as well as logger functionality, take a sensor measurement in air and water. The Teros 12 will read  $-0.70 \text{ m}^3/\text{m}^3$  in water and a slightly negative value in air.

NOTE: The sensors are optimized to read in soils, therefore the sensor will not read 100% in pure liquid water.

## Installation Tool

Proper installation of the sensors is critical for proper operation. The recommended technique is outlined below.

For easy installation, use the borehole installation tool. The installation tool (shown below) is available for rent from METER Group. Contact [Customer Support](#) for more information.



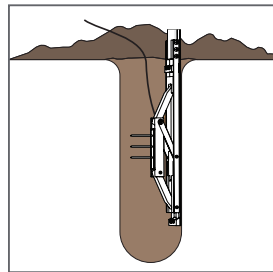
## Installation

### 1. Insert Sensor

Auger or trench a hole to the desired sensor depth. Insert the sensor into the undisturbed soil.

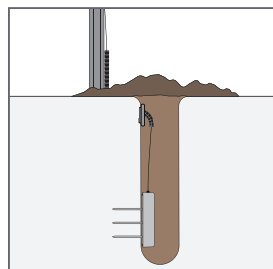
When using the borehole installation tool, load the Teros 12 as shown above.

Lower the tool into the hole or trench with the back of the tool supported by the far wall. Pull on the lever to activate the jack and insert the sensor into hole wall.



### 3. Repack Soil and Protect Cables

Secure and protect cables with PVC casing or flexible conduit and backfill the trench or hole.



## What is soil moisture?

Soil moisture is a key variable in controlling the exchange of water and heat energy between the land surface and the atmosphere through evaporation and plant transpiration.

[Learn more at metergroup.com](http://www.metergroup.com)

## ⚠ ATTENTION

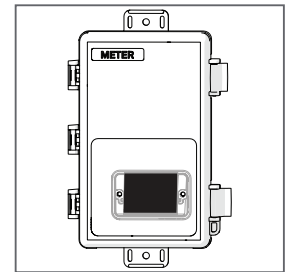
TEROS 12 requires the most current software and firmware versions. Please make updates as necessary.

Em50 firmware version 2.26 or higher  
ProCheck firmware version 1.67 or higher  
ECH2O Utility version 1.81 or higher  
DataTrac 3 version 3.15 or higher  
EM60 firmware version 1.09 or higher  
ZENTRA Utility version 1.09 or higher

Go to <https://www.metergroup.com/environment/downloads/> to find the current software or firmware version for the data logger being used.

### 2. Check Sensor Operation

Plug the sensor into the data logger and use the SCAN function in the software to do a quick check of sensor operation before backfilling.



### 4. Plug Sensor In and Configure Logger

Plug the sensor into the data logger. Use data logger software to apply appropriate settings to the sensors plugged into each data logger port.

