



**METER**

# **TEROS 14**

## **CDX SOIL MOISTURE SENSOR**



# TEROS 14 QUICK START

## Preparation

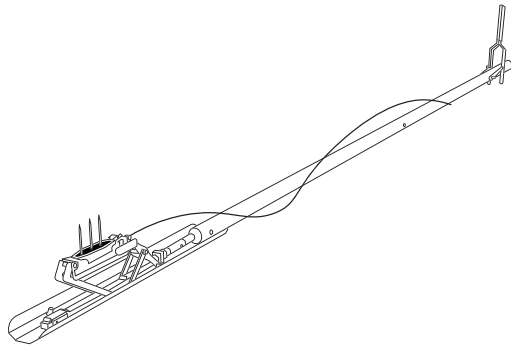
Inspect and verify the sensor components. Test basic sensor functionality in air and water. The TEROS 14 will read a dielectric permittivity of ~79 in water and ~1 in air.

**NOTE:** The TEROS 14 is optimized to measure the dielectric properties of soil to determine the amount of water in soil. Because of this, the sensors will not read 100% VWC in liquid water. To address this issue dielectric measurements are used to validate the sensor reading behavior when in water.

## Installation Tool

Proper installation of the sensors is critical for proper operation. Refer to the [TEROS 14 User Manual](#) for details.

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.

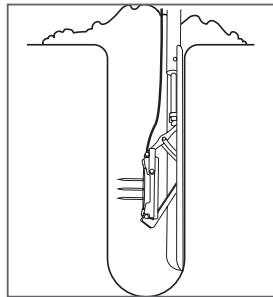


## Installation

### 1. Insert sensor

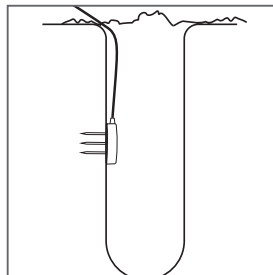
Auger or trench a hole to the desired sensor depth. Insert the sensor into the undisturbed soil.

When using the borehole installation tool, load the TEROS 14 as shown. 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 secure 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.

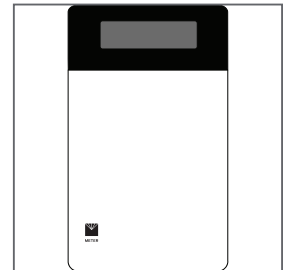
[Learn more at metergroup.com](https://www.metergroup.com)

## ⚠ ATTENTION

For best results, use the latest versions of METER software and firmware for the computer or mobile device, products, and sensors. Please use the software Help menu to find updates. Consult the sensor user manual for more troubleshooting tips.

### 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.

