METER

SOLYX 14

CDX SOIL MOISTURE SENSOR

18046-01
09.2025

SOLYX 14 QUICK START

Preparation

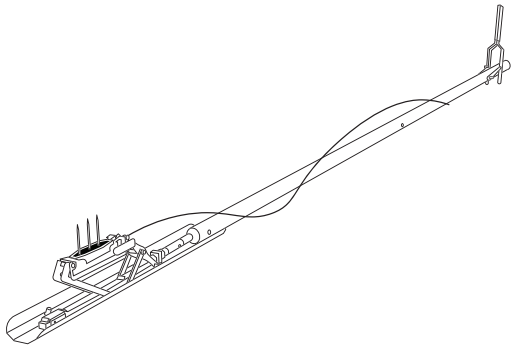
Inspect and verify the sensor components. Test basic sensor functionality in air and water. The SOLYX 14 will read a dielectric permittivity of ~79 in water and ~1 in air.

NOTE: The SOLYX 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 behavoir when in water.

Installation Tool

Proper installation of the sensors is critical for proper operation. Refer to the SOLYX 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.



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

⚠ ATTENTION

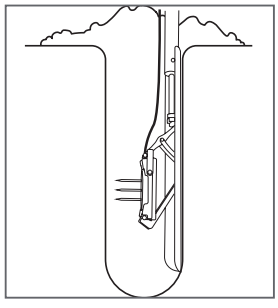
For best results, use the latest versions of METER software and firmware for the computer or mobile device, products, and sensors. Please use the software Help menu to find updates. Consult the sensor user manual for more troubleshooting tips.

Installation

1. Insert sensor

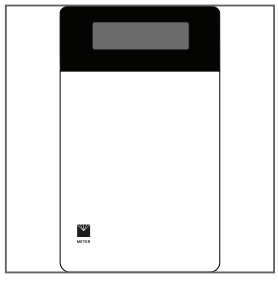
Auger or trench a hole to the desired sensor depth. Insert the sensor into the undisturbed soil.

When using the borehole installation tool, load the SOLYX 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.



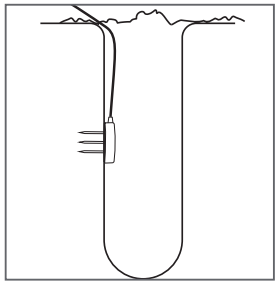
2. Check sensor operation

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.



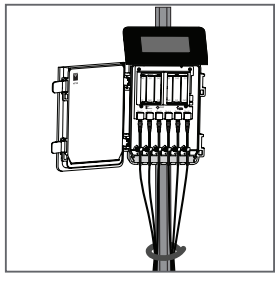
3. Repack soil and secure cables

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



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.



SUPPORT

Have a question or problem? Our support team can help.

We manufacture, test, calibrate, and repair every instrument in house. Our scientists and technicians use the instruments every day in our product testing lab. No matter what your question is, we have someone who can help you answer it.

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