

Instruction Manual

SoilCub™ 5 - in 1 Soil Moisture Meter



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Welcome to EarthScout!

Congratulations you are now the owner of a SoilCub 5-in-1 Soil Moisture Meter! We are committed to making your experience with EarthScout a positive one. If you have any questions or experience any issues please feel free to contact our support team for assistance 877-443-7632.

Register Your SoilCub

When you purchase the Soil Cub 5-in-1 Soil Moisture Meter there is a 1 year warranty if the product is registered with EarthScout within 45 days of purchase. Please visit the SoilCub registration page and fill out the Warranty Registration Form to activate your SoilCub Warranty.



SoilCub Registration Form

Get the Most Out of Your SoilCub

Visit our YouTube channel to watch quick tutorials, setup guidance, and tips to help you get started and make the most of your SoilCub 5-in-1 Meter.



EarthScout YouTube

Meter Set Up

Review the steps below to get started using your SoilCub. If you run into any issues with the following steps, refer to our troubleshooting and FAQ section later on this page.

1. Install the Batteries:

Use a small Phillips screwdriver to remove the protective battery cover on the back of the meter and install 6 AA batteries (Lithium batteries are recommended to ensure longest battery life and best performance). Once the batteries are installed, put the battery cover back on.

2. Turn on the Meter

After the batteries have been installed push the black power button located on the bottom panel of the meter. The power button should illuminate with a soft blue color when the unit is turned on. The LED screen will light up and show a battery icon with 3 full bars in the right hand corner of the screen

NOTE: A protective film has been added to the glossy cover of the meter to prevent scratching during manufacturing and shipping, which can be removed.

3. Connect the TDR Sensor:

If not already connected, take the Time Domain Reflectometry (TDR) sensor and insert the sensor cable plug into the metal port at the bottom of the Meter. Align the 3 small prongs at the end of the sensor cable to match the corresponding holes in the port plug in on the Meter and push the cable plug into the port. Next, turn the silver metal sensor casing clockwise with your hand until it is fully inserted into the port to lock the cable in place.

How to Use Your Soil Cub Meter

1. Insert the Sensor into the Soil:

Remove the black protective cover from the metal tines.

Find an area of soil that is free of large rocks or debris.

Use one or two hands to push the sensor vertically, diagonally or horizontally into the soil until the sensor tines are completely covered and the front of the black sensor head is completely flush with the soil.

TDR Soil moisture sensors require the tines to be inserted for accurate readings.

The soil temperature reading is taken from the black sensor head, therefore requires full contact with the soil.



Or, Insert In Potted & Bagged Plants



In Top or Side of Pot



In Top or Side of Bag

Dig A Hole for Deep Readings



Insert TDR Sensor
into bottom or side
wall of hole.

2. Taking a Reading:

With the meter on and sensor installed fully into the soil, the LED screen will read “Tap to Measure”.

Firmly tap the cover of the meter near the orange label that says, “Tap for Reading”.

The words “Measuring...Please Wait” will appear, in a few moments the screen will display soil sensor readings which are:

Soil VWC: This is the volumetric water content in the soil as a percentage.

Soil Temp: This is the soil temperature in degrees Fahrenheit.

Soil E.C.: This is the electrical conductivity of your soil in uS/cm.

Moments later, a second screen will appear that shows:

Ambient Temp: This is air temperature in degrees Fahrenheit.*

Relative Humid: This is relative humidity as a percentage.*

*Keep in mind, the air temperature & humidity sensor is located inside the meter case, and it can take 5-10 minutes for the air temperature and humidity inside the meter case to equalize with the external air temperature & humidity in extreme cases.

3. Removing the Sensor from Soil:

To remove the sensor from the ground squeeze the sides of the black insertion tool attached to the sensor head and pull. If the sensor is stuck in the soil, try moving the sensor side to side or front to back to loosen it from the soil.

Disclaimer The tip of the tines are extremely sharpe and can cause serious bodily injury and death if not handles carefully. Never run with the sensor and always keep it capped and pointed downwards while holding or walking with it.

NOTE: Sleep Mode

Data readings will display for roughly 3 minutes and then the meter will go into sleep mode where the LED screen will go dark, and the power button will flash blue. To wake up the meter, firmly tap the cover. You must turn off the Meter in order to end sleep mode.

Storing Your SoilCub Meter

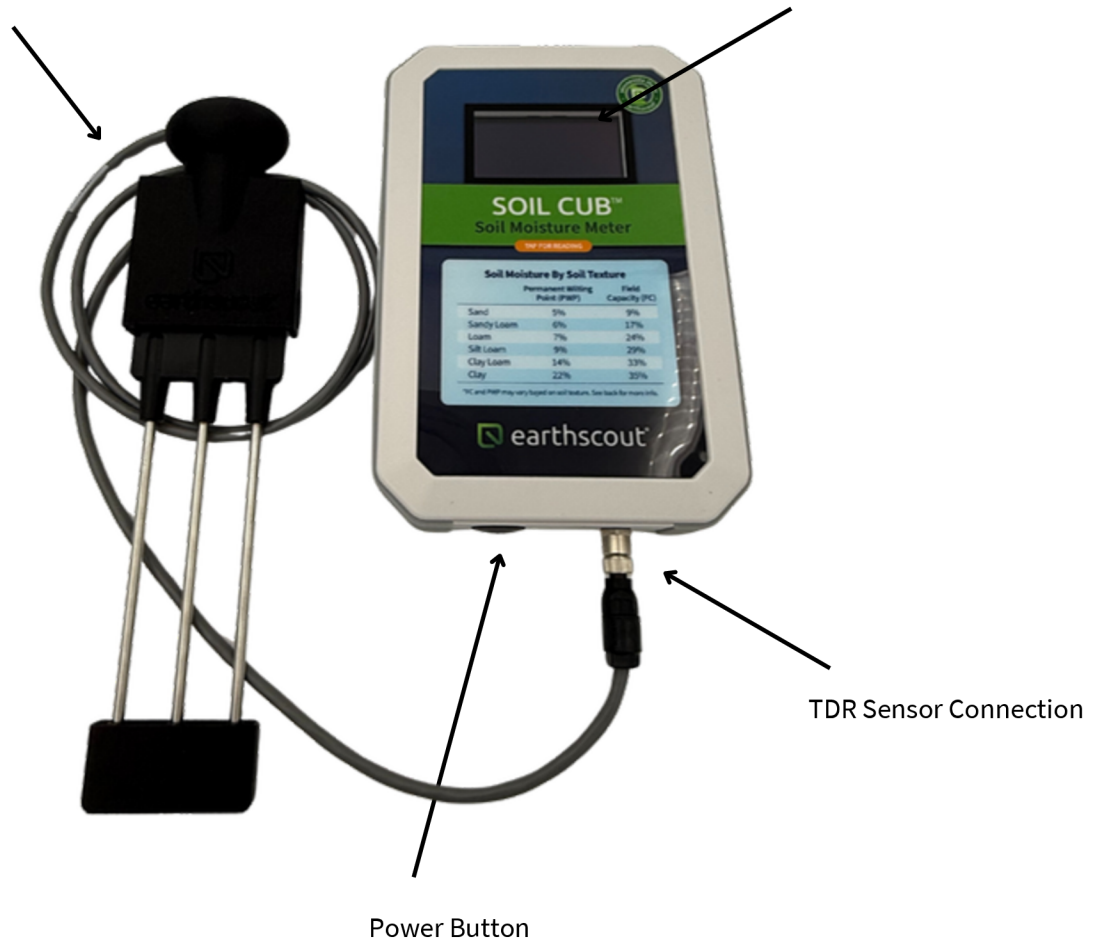
When you're done using the meter, press the black power button on the case to turn it off

Clean the black sensor head and stainless-steel tines after every use with a damp cloth and make sure it is dry before storing to ensure proper readings next time you use it. Keeping your sensor clean in storage will also protect the stainless steel from corrosion over time.

Place the black cap on the metal tines and use the shipping box for storage when not in use.

TDR Sensor with Installation Tool

LCD Screen



Don't forget to check out all of the great App tutorials and case studies on the EarthScout YouTube channel.



EarthScout YouTube

We understand the importance of having a strong support network for our customers. If at anytime you need assistance, please call 877-443-7632. We want you to be 100% satisfied with your new EarthScout product.



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Rev: 9/11/2025