

Soil Multi-Parameter Tester

User Manual



Scan the QR code to download the "Soil Test" APP and the User Manual.

Must scan the QR code first to use



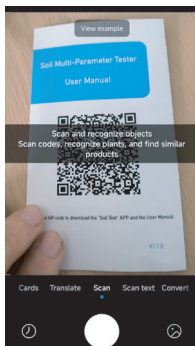
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Welcome to choose "soil parameter velocimeter", in order to better use this product, please read this document carefully. The product is used for mobile phone power supply, no charging (products similar to mouse, U disk, no battery).

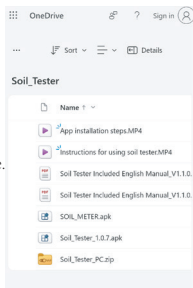
Installation method:

1. Scan the QR code to download the APP and install it. APP supports all Android and HarmonyOS.
2. After the sensor is inserted into the phone you can open the APP and the interface can display the data.

Step 1: Scan the QR code on the instruction manual to open the OneDrive file list.



Step 2: The file list contains operation videos, user manuals, an Android APP and PC software. Download "Soil Tester_1.0.7.apk" to your Android phone.



Step 3: Install the downloaded APK file on your phone. Since the app is not available on official app stores, a security risk warning may appear during installation. Please rest assured that this software is a tool adapted for our product and has no security risks. Please use it with confidence.



Step 4: Installation is complete. Click the icon to open and use the software.

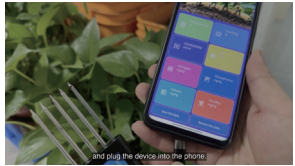


APP usage method:

(1) All the data will be displayed after the APP is opened. After the data is stable, you can click the "Save data" button, and the pop-up dialog box will be displayed to input the name and then click "confirm" to save the data.

(2) Click the "View data" button to view the saved data. The data is saved as an Excel file, which can be searched in the root directory and exported to a computer for analysis.

Step 1: Open the APP and connect the device to your phone.



Step 2: Insert the device fully into the soil.



Step 3: You can then read the measured soil data in real time.



Step 4: Click the save data button, enter a name for this data record in the pop-up dialog box, and then click the confirm button.
The data will be saved successfully.



Step 5: Click the view data button to check the saved data.
The data will be saved as an Excel file, which can be viewed in the root directory or exported to a computer for analysis.



Switch between
Chinese and English



real-time displayed
measurement data

save data

view saved data

Measuring method:

When you insert the device into the phone for the first time, a dialog box will pop up. If you click "OK", as long as the device is connected, the AP can be opened automatically. It can be used when the interface displays data.

As long as the five needles of the device are fully inserted into the middle of the stone. All soil data can be measured, which is simple and convenient to use, and the results are displayed quickly and intuitively. To ensure accurate measurement data, please carefully read the following precautions:

- (1) When using it for the first time, there is oil residue on the probe blade. It is recommended to continuously peel the several times on the soil, grind off the oil stains on the needle, and then measure again.
- (2) When inserting the probe, ensure that the probe is hilly inserted, and avoid stones, plastic bags, rotten leaves and other debris, do not shake. Make sure the soil is in close contact with the probe. (Soil that is too soft can be slightly tamped down and then measured).
- (3) In order to make the measurement data more accurate, the pit should be dug to the depth of the plant roots, and then the probe is inserted laterally to measure.
- (4) The fertilizer follows the water, and when it just rains, the fertilizer will be washed into the ground. With the evaporation of water, the fertilizer will precipitate on the surface of the soil, therefore, it is normal for soil surface nitrogen, phosphorus and potassium data to be high or low, and it is generally recommended to dig pits for measurement.

(5) Wait about 3-5 seconds after the device is inserted into the soil, and the data can be read after the data is stable.

PH(pH) measurement is slower. The waiting time of the upper soil is different. After inserting the soil, wait about 3-5 minutes for the data to be stable before reading.

(6) When measuring parameters such as nitrogen, phosphorus, potassium and electrical conductivity, it is necessary to ensure that the water is more than 40%, and when the water is low, many fertilizers are insoluble solution, the measured value is low. If the water is less, you can add water and mud and then measure, do not add too much water, do not mix into a mud.

(7) Most of the current fertilizers are slow-release fertilizers, such as urea fertilizer can not be measured immediately after fertilization, until it is decomposed into fast-acting components to be measured.

Troubleshooting and Handling:

1. When the sensor is inserted into the mobile phone for the first time, if "Connection failed" is displayed, it is because OTG is not opened, most mobile phones will automatically open the OTG function, and a small number of mobile phones need to be opened manually (such as OPPO and VIVO mobile phones), the opening method is: "Settings -> More links -> OTG", after opening, insert the sensor can be used normally.

2. the previous normal use of the device can not display data, you can unplug the device in the USB interface to insert a mouse or U disk, see whether the phone has a reaction. If the phone does not react, it means that the OTG line is in poor contact or damaged, and there is still no reaction after changing the phone, it means that the OTG line is broken, and the OTG line can be replaced. If the phone responds, the device is damaged. Contact the manufacturer.

reference data:

Measurement parameter	Adaptive range of plants
Electric conductivity	200-1500(μ s/cm)
PH (PH)	5.0-7.8(Ph)
Nitrogen (N)	25-100(mg/kg)
Phosphorus (P)	30-90(mg/kg)
Potassium (K)	40-150(mg/kg)
fertility	100-800(mg/kg)

For reference only, not to be used as legal basis.

1.the temperature and water requirements of different plants are too different. No reference data can be given, please consult the relevant industry experts.

2.Soil moisture is obtained according to the national standard (quality water content). For example, 20% moisture refers to that in 1000 grams of soil, there are 200 grams of water, different measurement data are different, please pay attention to distinguish, to prevent cognitive errors.

3.The above reference data is the range of soil that plants adapt to, and too high or too low data will affect the growth of plants. Please consult relevant experts for soil conditioning.

Contact us:

If you encounter any problems or have questions during installation and use, please contact us through your purchase channel. We will provide technical support as soon as possible!

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