

Wi-Fi Smart Soil Sensor INSTRUCTION



Powered By **offgridtec**

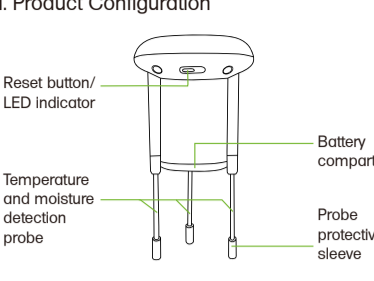
Thanks for Choosing our WiFi Smart Home Sensors

Specifications

Battery: AA/LR6 1.5V * 3 (replaceable)
 Wireless standard: IEEE 802.11b/g/n/ax
 Wireless frequency: 2.4GHz
 Wireless distance: 45M
 Bluetooth version: Bluetooth 5.0
 Waterproof level: IP66
 Temperature detection range: -10°C - 60°C (14°F - 140°F)
 Moisture detection range: 0 - 100%RH(non-condensing)
 Detection accuracy: temperature 0.5°C (adjustable) moisture: 1%RH (adjustable)
 Temp. & moisture detection interval: 5min (adjustable)
 Working temperature: -10°C - 60°C (14°F - 140°F)
 Working moisture: 0 - 100%RH (non-condensing)
 Dimensions: 78mm x 78mm x 146mm


Product Configuration

1. Product Configuration



2. Packaging accessories

1. Smart Soil Sensor x1 2. Cross Screwdriver x1 3. user manual x1

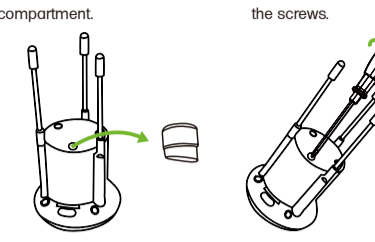


Installation and use

1. Battery replacement

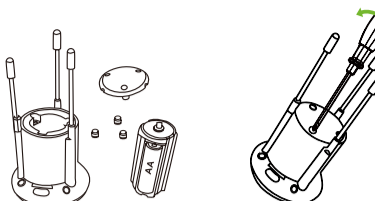
Note:
 ① Please dry the device before replacing the battery to ensure that no dirt or water stains seep into the device.
 ② Pay attention to the positive and negative poles when installing the battery. Please install according to the silk screen markings on the battery compartment.

1. Remove the waterproof rubber plug from the battery compartment. 2. Please use a screwdriver to loosen the screws.

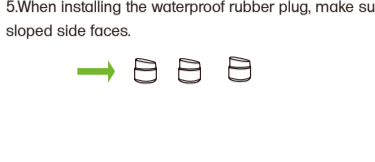


3. Remove the cover and battery compartment and replace the batteries.

4. Put the battery compartment back, close the cover, and tighten the screws.



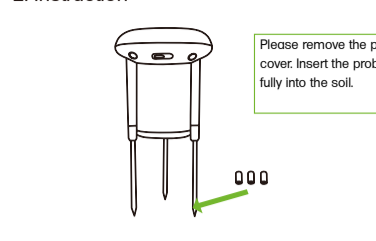
5. When installing the waterproof rubber plug, make sure the sloped side faces.



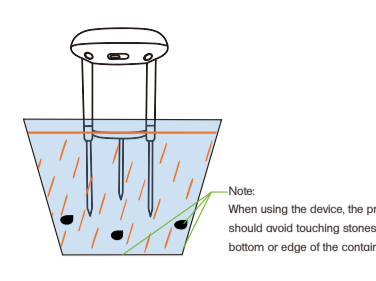
2. Instruction

Please remove the probe cover, insert the probe fully into the soil.

Correct demonstration Error demonstration

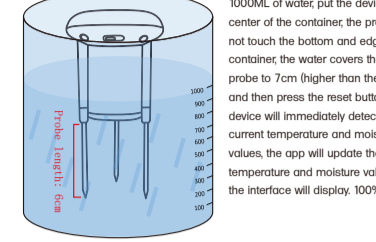


The soil to be tested needs to be completely covered by the 3 probes. When used, the soil being tested only covers half of the probe.




Note: When using the device, the probe should avoid touching stones, the bottom or edge of the container.

If you want the device to reach 100% moisture, first prepare a container filled with 1000ML of water, put the device in the center of the container, the probe does not touch the bottom and edge of the container, the water covers the device probe to 2cm higher than the probe), and then press the reset button. The device will immediately detect the current temperature and moisture values, the app will update the temperature and moisture values, and the interface will display 100% humidity.




3. Usage scenario notes


(1) It is not suitable to use soil sensors for indoor potted plants. The inner diameter is too small, which will affect the detection needs. It is also not recommended to insert it directly into a metal pot.



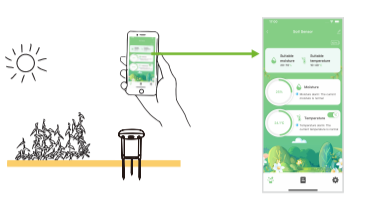
(2) Garden precautions
 1. When using the soil sensor on a dense lawn, please clear the grass layer on the lawn first to ensure that the sensor can fully contact the soil.




2. When used in a flower bed, it is recommended that the sensor be placed 10cm away from the flower bed barrier; if the distance is too close, it will affect the detection needs, resulting in inaccurate actual test data.



① From sunny days to rainy days



② From rainy days to sunny days
 Soil moisture will temporarily drop and then gradually rise again.



(3) From rainy days to sunny days, or from sunny days to rainy days, the penetration of different soils is different. Usually, there will be a change in moisture within 30 minutes, and the moisture change within 1 hour will be greater than 5%. The following figure shows the change in weather and moisture in the garden.



4. Notes

(1) When replacing batteries, pay attention to the direction of the positive and negative poles.
 (2) The device is equipped with a battery by default. After long press the reset button for 7 seconds, the device enters the pairing state and you can add a network configuration.

LED State

Device Status	LED State
Waiting Configuration Mode	The LED Light flashes twice per second
Reset	Long press the reset button for 7s, the led flashes to indicate successful.

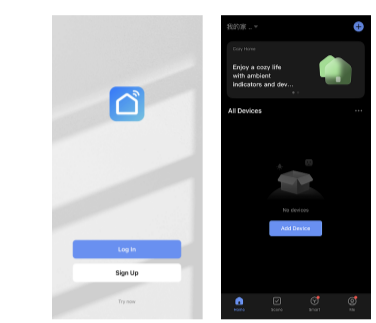
Get Started

1. Download APP
 Android system: Download the "Smart Life" APP at Google Play.
 IOS system: Download the "Smart Life" APP from the Apple Store.



2. Register and Login

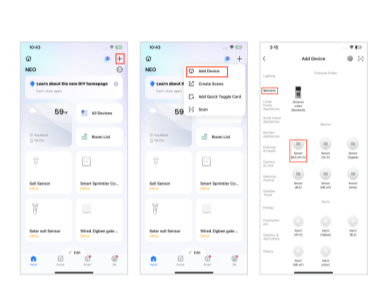
2.1 Launch the "Smart life" app.
 2.2 To register enter your mobile phone number or email address, create a password, then login to the app.
 2.3 Login if you have an account already.



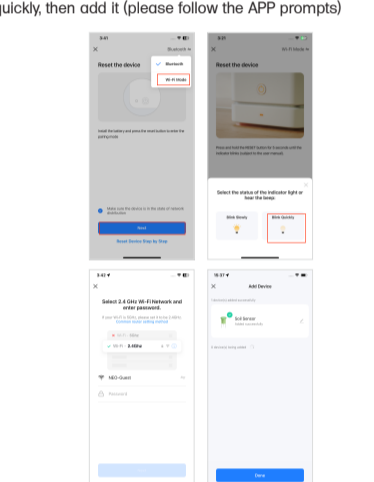
3. Add Devices

The device defaults to Wi-Fi network configuration mode; if the indicator light is off, press and hold the reset button for 5-7 seconds, then select the corresponding mode of the indicator light to add the device.

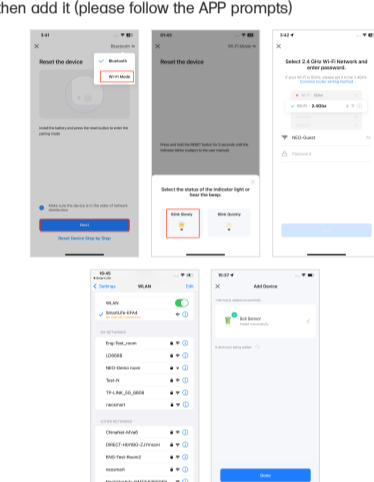
3.1 Select the device type to add
 Note: All Wi-Fi products can be added by selecting any Wi-Fi option. The device only supports 2.4GHz Wi-Fi signals.



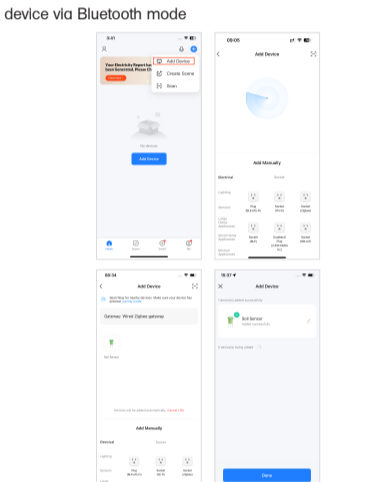
(1) Smart Wi-Fi Mode
 Press the reset button until the device indicator flashes quickly, then add it (please follow the APP prompts)



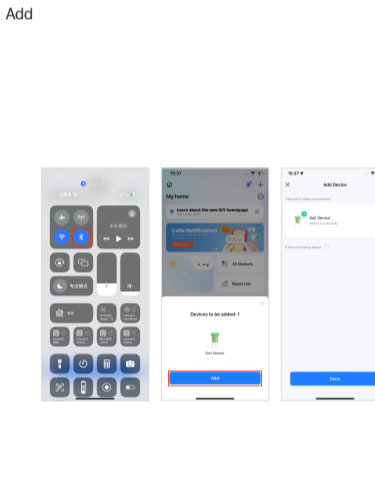
(2) AP compatible Mode
 Press the reset button until the device indicator flashes slowly, then add it (please follow the APP prompts)



3.2 Bluetooth Mode
 Method 1: Turn on Bluetooth on your phone and add the device via Bluetooth mode



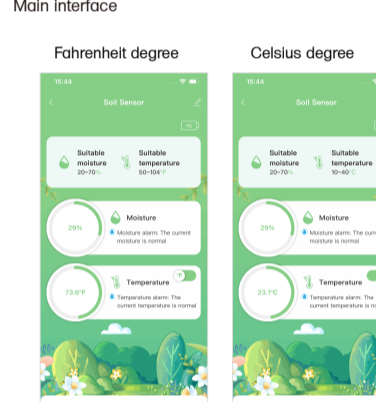
Method 2: After turning on Bluetooth, enter the APP and the device will be automatically searched by Bluetooth, then click Add



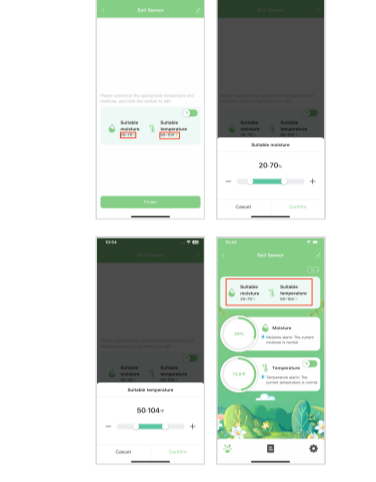
Functions and Settings

Main Interface

Fahrenheit degree Celsius degree

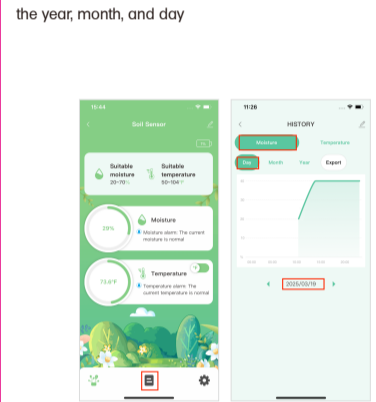


1. Customize suitable temperature and moisture

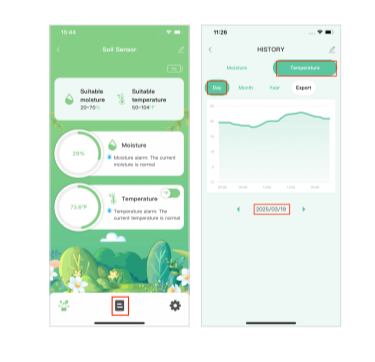


2. Record

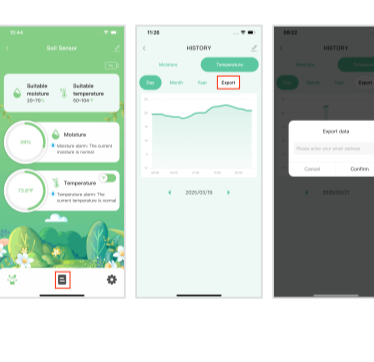
(1) Moisture record: you can adjust and view the moisture of the year, month, and day



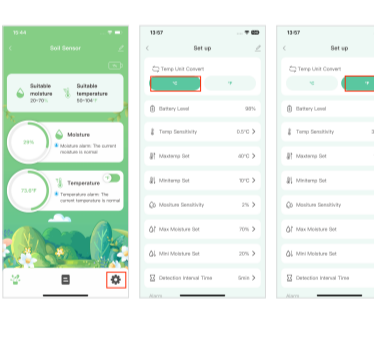
(2) Temperature record: you can adjust and view the temperature of the year, month, and day



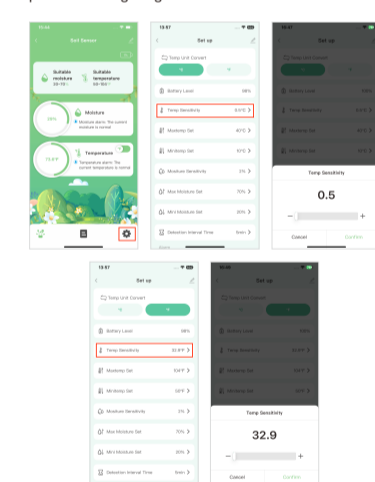
(3) Exporting Data



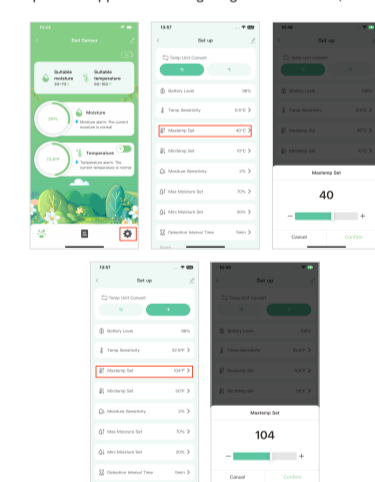
3. Setting parameters
 (1) Switch temperature scale



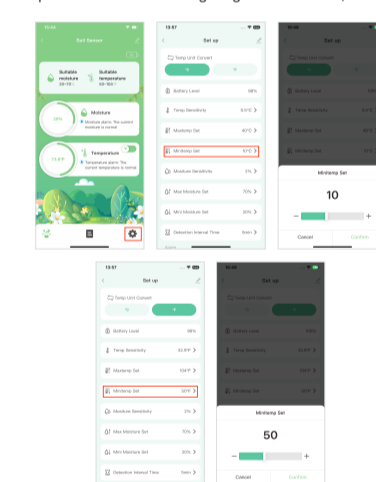
(2) Temperature sensitivity
 Temperature setting range: 0.5°C - 3°C and 32.9°F - 37.4°F



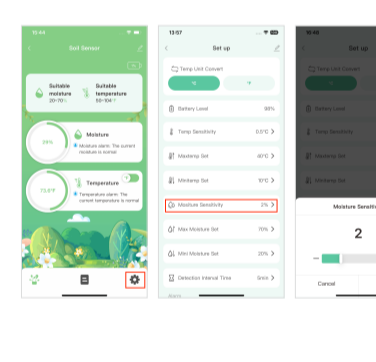
(3) Temperature upper limit setting
 Temperature upper limit setting range: -10°C - 60°C (14°F - 140°F)



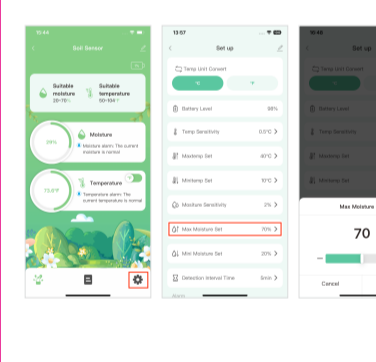
(4) Temperature lower limit setting
 Temperature lower limit setting range: -10°C - 60°C (14°F - 140°F)



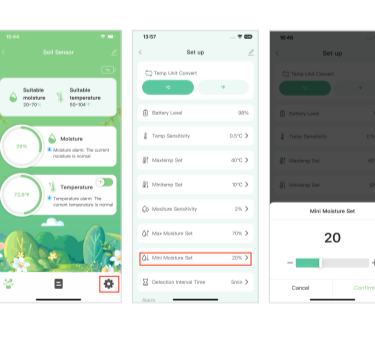
(5) Moisture sensitivity
 Moisture setting range: 1% to 5%



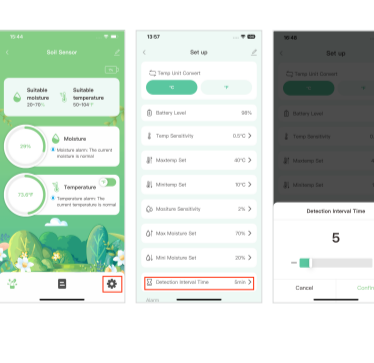
(6) Moisture upper limit setting
 Moisture upper limit setting range: 0% - 100%



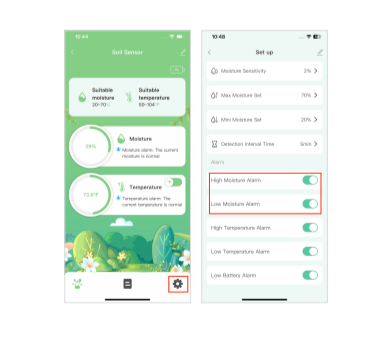
(7) Moisture lower limit setting
 Moisture lower limit setting range: 0% ~ 100%



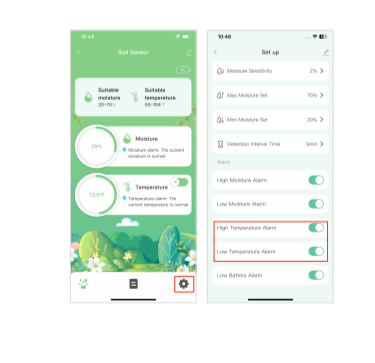
(8) Detection time
 Detection time setting range: 1min ~ 30min



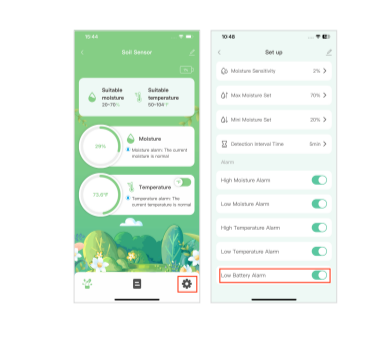
4. Moisture too high/too low reminder



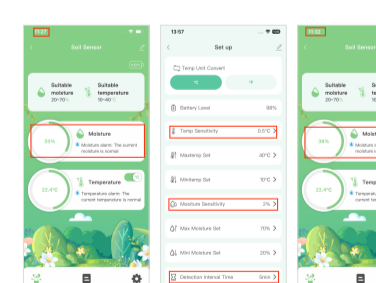
5. Temperature too high/too low reminder



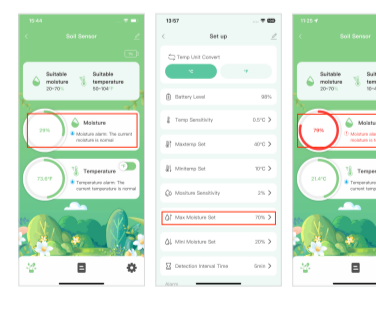
6. Low battery reminder



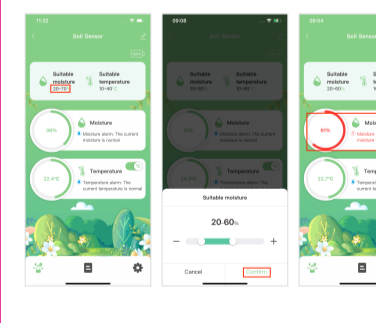
7. Detection logic description
 (1) Temperature and moisture reporting logic: The device will trigger reporting based on the detection time, temperature sensitivity, and moisture sensitivity. For example, if the detection time is set to 5 minutes, the temperature sensitivity is 0.5°C, and the moisture sensitivity is 2%. The device will detect once every 5 minutes. If the temperature changes by more than 0.5°C or the moisture changes by more than 2%, the temperature and moisture values will be updated on the APP main interface.



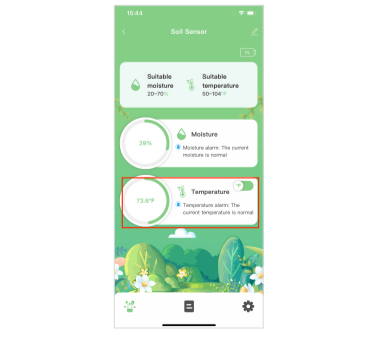
(2) Temperature and moisture alarm logic
 1. The device will trigger an alarm based on whether the temperature is higher than the upper limit or lower than the lower limit. For example, if the suitable moisture range is set to 20%~60%, when the moisture exceeds 60%, the high moisture alarm will be triggered.



2. The device will trigger an alarm based on whether the temperature is higher or lower than the set suitable temperature and moisture range. For example, if the suitable temperature range is set to 20%~60%, when the moisture exceeds 60%, the high moisture alarm will be triggered.



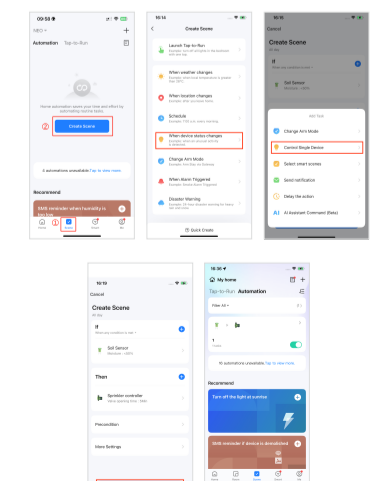
3. Temperature value display.
 Detect the surface temperature of the soil



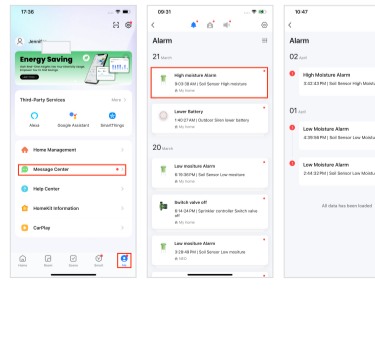
Other Function

1. Scene Linkage
 When the soil moisture of garden lawn plants reaches 30%-40%, it is suitable to start watering, and when it reaches 60%-70%, it is recommended to turn off watering.

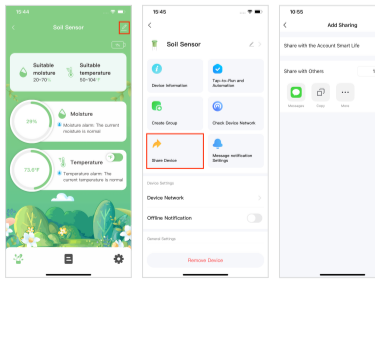
2. View alarm records



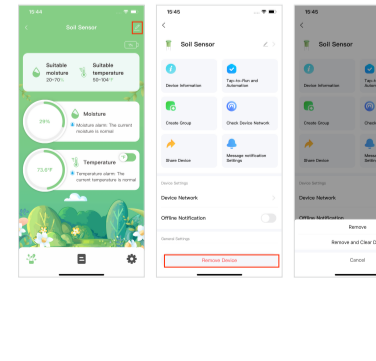
3. Sharing device



4. Clear History
 Delete the device through the APP and add it again to clear all device records and restore default settings



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 Delete the device through the APP and add it again to clear all device records and restore default settings



FAQ

1. In addition to setting the automatic detection time in the APP, is there any other way to detect soil data?
 A: Press the reset button, the device will immediately detect the current soil temperature and moisture, and each detection lasts about 3 seconds.

2. In what range of humidity values measured by the device does it mean that the soil moisture is too high?
 A: When the moisture of the device is around 80%, it means that the soil is too humid. Also, please note that the device cannot reach 100% moisture in the soil. The device defines 0% moisture in the air and 100% moisture in the water.

3. What should I pay attention to when using the devices?
 A: Every time you insert the device into the soil, keep the metal probe clean. If there is any dirt, clean it off to avoid affecting the sensing accuracy and stability of the device.

4. Is it normal that the device data changes slightly?

A: This is normal. The data changes slightly during actual use of the device. If the temperature and moisture values remain unchanged for a long time, it is recommended to press the reset button for automatic detection.

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