

Wi-Fi

Solar Soil Sensor

INSTRUCTION

Thanks for Choosing our WIFI Smart Home Sensors

Specifications

NIMH rechargeable battery: AA (1.2V) * 3
Standby current: 86uA
Wireless standard: IEEE 802.11b/g/n
Wireless frequency: 2.4GHz
Wireless distance: 45M
Bluetooth version: Bluetooth 5.0
Waterproof level: IP66
Temperature detection range: -10 ~ 60°C(14 ~ 140°F)
Moisture detection range: 0 ~ 100%RH(non-condensing)
Conductivity accuracy: 3%FS 0.01ms/cm,
maximum range: 20ms/cm
Detection accuracy: temperature 0.5°C (adjustable),
moisture: 1%RH (adjustable)
Temp. & moisture detection interval: 5min (adjustable)
Working temperature: -10 ~ 60°C(14 ~ 140°F)
Working moisture: 0 ~ 100%RH (non-condensing)
Dimensions: 86mm X 86mm X 146mm

Product Configuration

1. Product Configuration

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.

2. Packaging accessories

① Solar 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.

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

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

4. When installing the waterproof rubber plug, make sure the sloped side faces upward to prevent water leakage

5. Remove the probe cover, insert the probe fully into the soil.

Correct demonstration

Error demonstration

If you want the device to reach 100% moisture, first prepare a container filled with 1000ML of water, place 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 7cm (higher than the probe), and then press the reset button. The device will immediately detect the current temperature, moisture and EC values, the app will update the temperature, moisture and EC values, and the interface will display 100% moisture. If the moisture changes slowly, it is recommended to press the reset button several times.

(1) Garden Notes

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.

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 is powered on in Wi-Fi network configuration mode by default; 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.

Functions and Settings

Main Interface

Fahrenheit degree Celsius degree

Method 2:

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

1. Customize suitable temperature and moisture

2. Record

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

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

Smart Wi-Fi Mode

Press the reset butt on until the device indicator flashes quickly, then add it (please follow the APP prompts)

AP compatible Mode

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

Bluetooth Mode

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

Method 2:

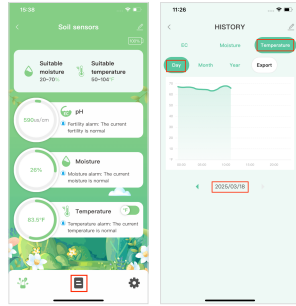
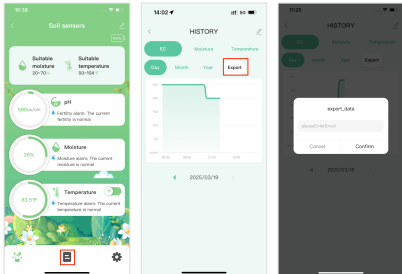
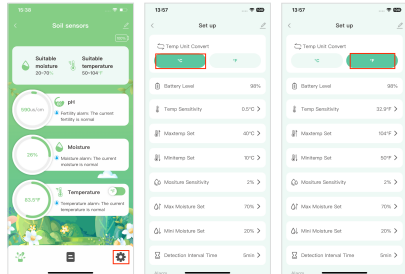
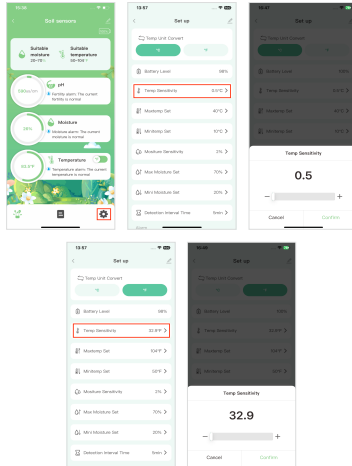
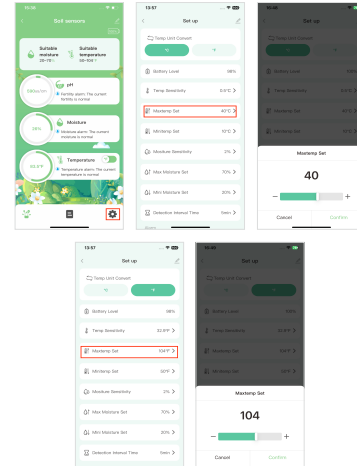
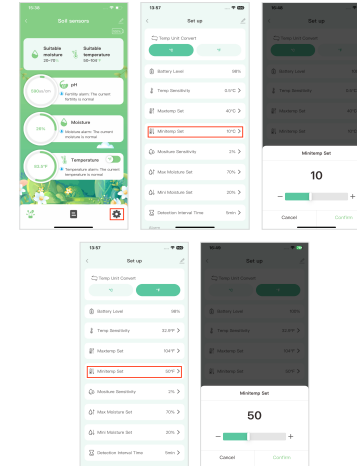
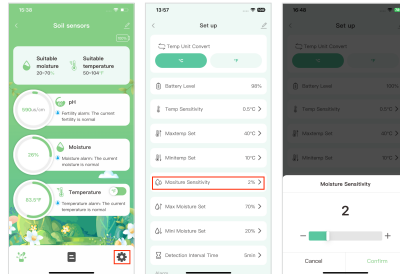
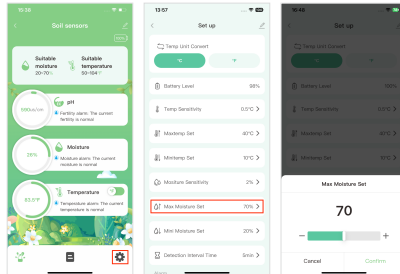
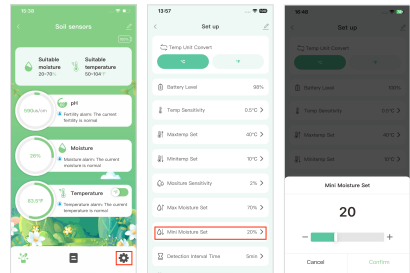
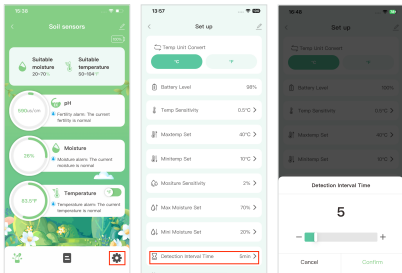
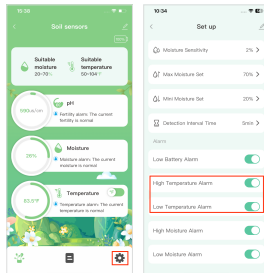
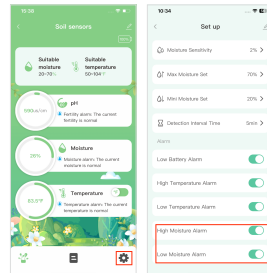
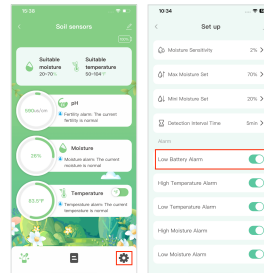
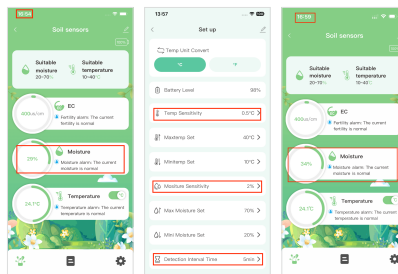
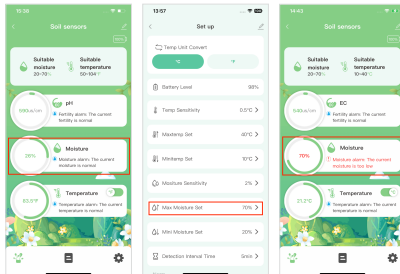
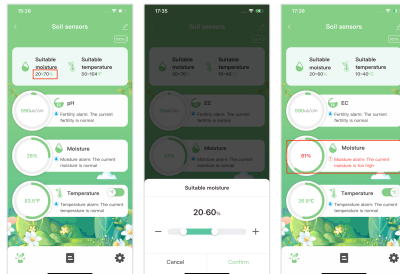
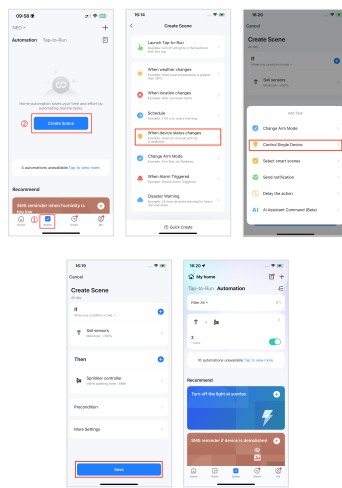
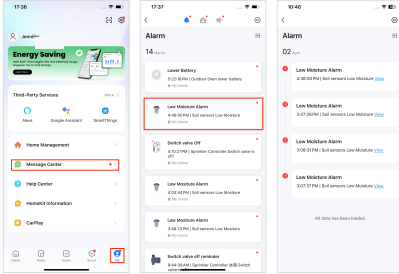
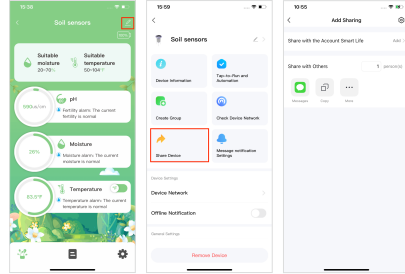
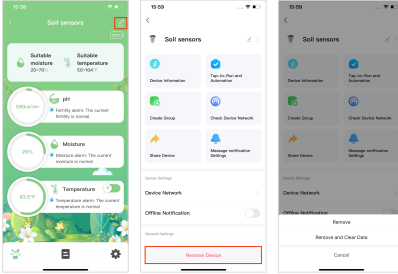
After turning on Bluetooth, enter the APP and the device will be automatically searched by Bluetooth, then click Add

Customize Temperature and Moisture

Record Functionality

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

(2) 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 upper limit setting 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: -10~60°C(14~140°F)	(4) Temperature lower limit setting Temperature lower limit setting range: -10~60°C(14~140°F)	(5) Moisture sensitivity Moisture setting range: 1% to 5%	(6) Moisture upper limit setting Moisture upper limit setting range: 0% ~ 100%
 24	 25	 26	 27	 28	 29	 30	 31
(7) Moisture lower limit setting Moisture lower limit setting range: 0% ~ 100%	(8) Detection time Detection time setting range: 1min ~ 30min	4. Temperature too high/too low reminder	5. Moisture too high/too low reminder	6. Low battery reminder	7. Detection logic description (1) Temperature, Moisture and EC value reporting logic. The device will trigger reporting based on the detection time of temperature sensitivity and moisture sensitivity. For example, if the detection time is set to 5 minutes, the temperature sensitivity is 0.5%, and the moisture sensitivity is 2%. The device will detect every 5 minutes. If the temperature changes by more than 0.5°C or the moisture changes by more than 2%, the temperature, moisture and EC values will be updated on the main interface of the APP.	(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 maximum moisture is set to 70%, when the moisture exceeds 70%, 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 moisture range is set to 20%~60%, when the moisture exceeds 60%, the high moisture alarm will be triggered.
 32	 33	 34	 35	 36	 37	 38	 39
(3) Temperature value display. Detect the surface temperature of the soil	Other Function 1. Scene Linkage e.g., when the soil sensor detects that the moisture is lower than 30%, the watering device is turned on and the duration 5 minutes (the duration can be set). After 5 minutes, the watering device automatically turns off.) When the soil moisture of garden lawn plants reaches 30%~40%, it is suitable to start watering. When it reaches 60%~70%, it is recommended to turn off watering.	 40	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	FAQ	to avoid affecting the sensing accuracy and stability of the device.
 (4) Solar charging logic. When the device is low power, the device will automatically start charging with sunlight. Note when charging: ① Avoid obstruction: During the charging process, ensure that the solar panel can fully receive sunlight and avoid any obstruction that affects the charging effect. ② Clean the solar panel: Clean the dust and dirt on the solar panel regularly to improve the charging efficiency.			 41	 42	 43	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, moisture and conductivity values, and each detection lasts about 3 seconds. 2. In what range of moisture 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 device? A: Every time you insert the device into the soil, keep the metal probe clean. If there is any dirt, clean it up	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.