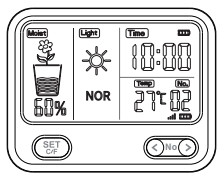
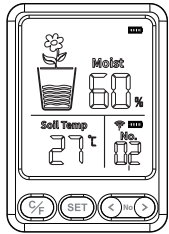


Soil Tester

User Manual



Soil Monitor
(HG01)



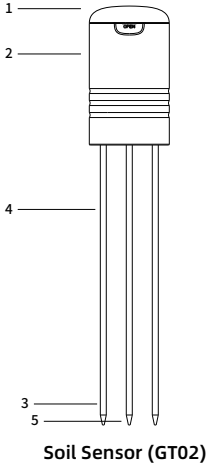
Soil Monitor
(HG02)



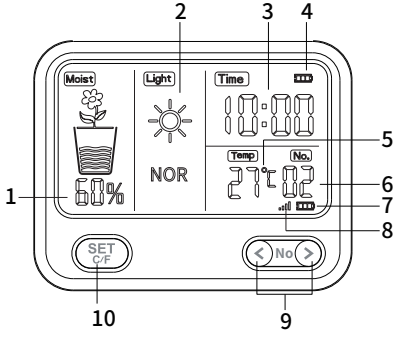
Soil Sensor
(GT02)

Please read this manual carefully and thoroughly before using this product.

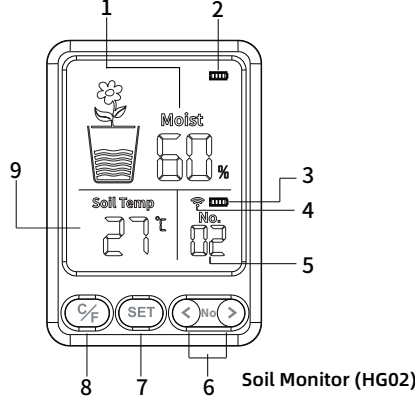
Product Diagram



1. Battery cover
2. Battery compartment
3. Temperature sensor
4. Probe
5. Moisture sensing head

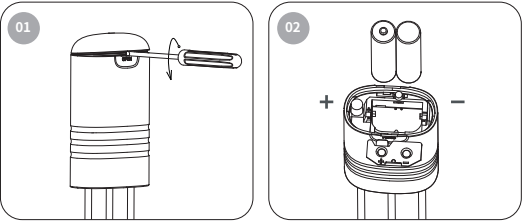


- Soil Monitor (HG01)**
1. Soil moisture readout
 2. Light intensity readout
 3. Time display
 4. Battery level display (monitor)
 5. Soil Temperature
 6. Serial number of the sensor displayed on the screen
 7. Battery level display (soil sensor)
 8. Wireless transmission signal icon:
 - The icon displays normally, indicating that the device is within the transmission range.
 - The icon blinks, indicating that the device is out of range.
 9. Switch button: Press < or > to switch between different sensors displayed on the screen.
 10. SET Button

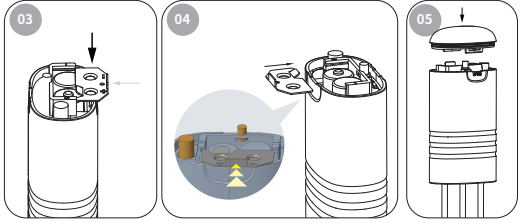


- Soil Monitor (HG02)**
1. Soil moisture readout
 2. Battery level display (monitor)
 3. Battery level display (soil sensor)
 4. Wireless transmission signal icon:
 - The icon displays normally, indicating that the device is within the transmission range.
 - The icon blinks, indicating that the device is out of range.
 5. Serial number of the sensor displayed on the screen
 6. Switch button: Press < or > to switch between different sensors displayed on the screen.
 7. SET button
 8. °C/°F switch button
 9. Soil Temperature

How to install the battery



1. Gently pry open the Battery cover with a flathead screwdriver to access the battery compartment.
2. Insert two AAA batteries according to the polarity markings (+/-).



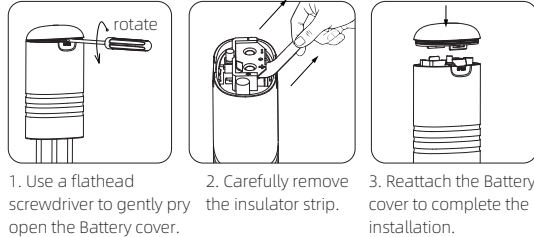
3. Press down the battery with the cover and slide both into the guide slot.
4. Slide the battery cover along the guide until fully closed. The indicator light will briefly illuminate to confirm success.
5. Reattach the Battery cover Installation complete.

Important: The soil sensor is not factory-paired. Pair it before first use to enable soil measurement. Keep the display unit and sensor within 5 meters (16 ft) during pairing. Follow the steps below.

Automatic Pairing Mode: (Applicable for initial pairing)

- 1. Install the battery in the display:**
The screen flashes "01," indicating it is in pairing standby mode.
 - Remove the insulator strip from the sensor to be activated and Attach the sensor label marked "01"
 - When the display number changes to "02," it indicates successful pairing of sensor "01".
 - Repeat the process to pair the remaining sensors in sequence.
- 2. Activate the sensors one by one:**
 - Remove the insulator strip from the sensor to be activated and Attach the sensor label marked "01"
 - When the display number changes to "02," it indicates successful pairing of sensor "01".
- 3. Press the "SET" button to exit pairing mode.**
If no new sensor is paired within 3 minutes, the pairing mode will automatically exit.

How to Remove the Insulator Strip



Manual Pairing(Adding a new sensor)

- 1. Press and hold the ">" button on the display for 10 seconds.**
The number will flash, indicating manual pairing mode is activated.
- 2. Activate the sensors one by one:**
 - Remove the insulator strip from the sensor to be activated and Attach the sensor label marked "01"
 - When the display number changes to "02," it indicates successful pairing of sensor "01".
 - Repeat the process to pair the remaining sensors in sequence.
- 3. Press the "SET" button to exit pairing mode.**
If no action is taken within 20 seconds, the mode will automatically exit.

Adding a New Display

1. Remove the batteries from all sensors.
2. Follow the "Automatic Pairing" steps to re-pair the sensors.

Pairing Reset

- Method 1: Press and hold the "<" button for 10 seconds to clear all pairings. Then activate the sensors one by one and re-pair them.
- Method 2: Adjust the order of the sensor labels according to the numbers displayed on the screen.

Moisture Measurement:

1. Make sure the probes are clean before use.
2. Loosen the soil before measurement, break up pieces if it is hardened. Remove grass, leaves, pebbles and other debris.
3. Ensure the probe is inserted vertically into the loosened soil. Press the soil tightly around the probes so that the probes are in close contact with the soil.
4. Read the % moisture value in the display.

Note:

1. It is recommended that probe head should be inserted into the soil at least 7-8cm when make the measurement.
2. When the soil moisture environment is stable, in order to save the battery power consumption of the sensor, the sensor will not continuously transmit data to the monitor. If there is no change in soil moisture readings after watering, please wait up to 30 minutes and then read the data.

Low Moisture Alarm:

1. When the soil moisture level drops below 10%, the percentage symbol and the flower pot icon on the screen will flash. This function helps to remind you to water the plants and maintain their health.
2. Press and hold the SET button and the NO (>) right button simultaneously for 3 seconds to enter the custom humidity alarm value setting. The adjustable range is 0% to 100%.

Light Intensity Measurement:

Appropriate light does well in plant's growth (some plants need more light than others). This function helps you understand the level of light and determine if adequate illumination for photosynthesis is being provided to the plants. The sensor can measure the intensity of light automatically and send the data to the monitor and display on the screen. Here is the list:

Low Light			Normal Light			High Light		
LOW-	LOW	LOW+	NOR-	NOR	NOR+	HGH-	HGH	HGH+

Temperature Measurement:

The sensor can measure the Soil Temperature of the plant automatically and send the data to the monitor and display on the screen. Press SET button to set the unit of temperature as °C or °F.

Time Setting:

- Press and hold the SET button for 3 seconds to enter the time setting mode, follow the steps below to set the time:
1. Use the number buttons < or > to choose either 24-hour or 12-hour format, press SET button to confirm and switch to the hour setting.
 2. Use the number buttons < or > to adjust the hours, press SET button to confirm and switch to the minute setting.
 3. Use the number buttons < or > to adjust the minutes, press SET button to confirm and save the time.

Disconnection Reminder:

If the sensor (transmitter) and monitor (receiver) are placed beyond the specified working range, the wireless signal on the display screen will blink continuously, indicating that the sensor and monitor have disconnected. After 48 hours, the sensor that is out of range will no longer be displayed on the screen. Please ensure that the sensor and monitor are within the specified working range to maintain a reliable connection.

Important Notes:

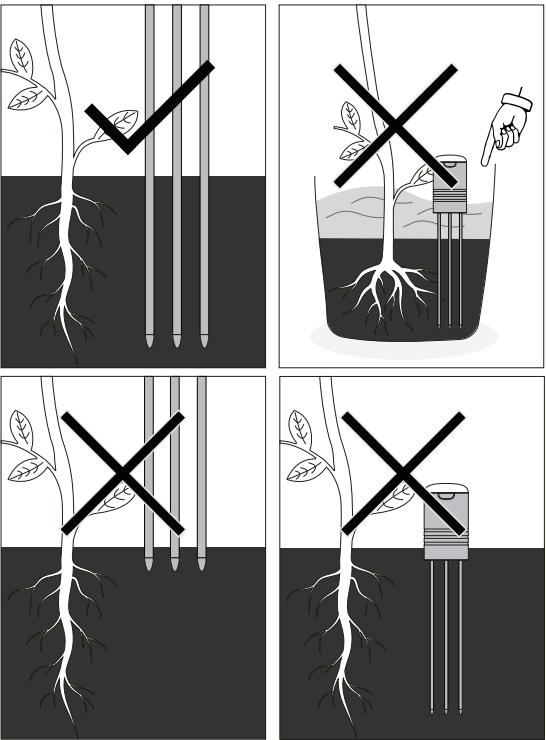
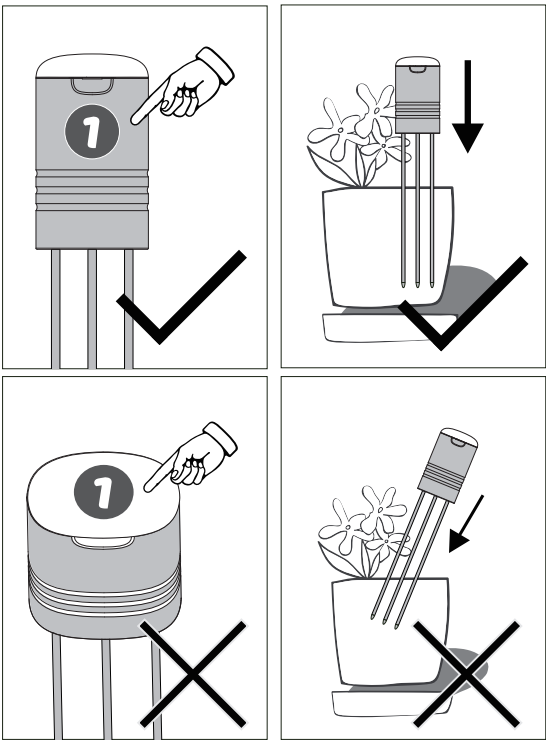
1. Do not cover the light sensor.
2. Do not put the probes into water or other liquids.
3. Do not force the probes into hard soil or at hard objects, as this can easily damage the probes.
4. Please use good quality alkaline batteries.
5. Water may not penetrate the soil evenly, try measuring at different locations and depths to get an accurate reading.
6. Please keep the unit away from metal objects, refrigerators, iron doors, metal surface, etc.
7. Please keep the sensor at least 1 meter above the ground level, as close proximity to the ground can affect the wireless working range.
8. Please take out the probes and wipe them every 2 weeks, then insert back into the soil. Prolonged exposure of the sensor head in the soil may affect the accuracy of the data.

Specifications:

Soil Sensor(GT02)	
Power Supply	2 x AAA
IP Rating	IPX5
standby time	8 - 12 months
specifications and dimensions	210 x 40 x 24mm
Soil Monitor(HG01)	
specifications and dimensions	98 x 77 x 22mm
standby time	8 - 12 months
Power supply	2 x AA batteries
Soil Monitor(HG02)	
specifications and dimensions	92.5 x 65 x 22mm
standby time	8 - 12 months
Power supply	2 x AA batteries



Scan the QR code for all setup and pairing tutorials



FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.