80*120 折页

Soil Sensor user manual



Dear users, thanks for using our soil sensor. Please kindly read the manual before using the sensor, it can help you with perfect functions and

The soil sensor is designed with a probe which is made of austenitic 304 stainless steel and has the features of good corrosion resistance and toughness. The mobile APP can view real time moisture data, and work with our smart garden timer to realize automatic intelligent irrigation.

Product features:

- 1. Monitor real time soil moisture and temperature
- . Mobile APP to view the historical record curve
- 3. Linkage with our smart garden timer to realize automatic irrigation
- 4. Powered by two AA batteries, low power consumption and strong battery
- 5. Using highly sensitive probe, fast response, stable and reliable, accurate measurement
 6. Quick plug in and easy to measure

Application scenes:

Suitable for various gardening places, satisfy soil mosture measurement in different plantation to provide all-round care for flowers and plants.

Examples: farm, greenhouse, orchard nursery, garden lawn, potted plant, garden horticulture etc.



Product parameters:

Parameters	Paremeter details
Power supply	2 pcs 1.5V AA batteries
Battery lifetime	Battery of 2000mAh last for over 1 year
Moisture range	0~100%
Moisture accuracy	$0^{\circ}50\%(\pm3\%)$, $50\%^{\circ}100\%(\pm5\%)$
Temperature range	-20℃~60℃
Temperature accuracy	±1℃
Connected protocol	Zigbee
App response time	60S
Protection level	IP67
Size	Length 180mm, Width 46.5mm, Probe 60mm

Note: These are the details of all measurable parameters, please take actual

App download: Tuya smart or Smart life



QR code for Smart life App The connected protocol of soil sensor is Zigbee, and requires Tuya zigbee gateway to connect the mobile phone

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Add devices to App:

1.Press button on soil pairing mode



4. Enter pairing mode interface, the gateway will search the device



2.Open Tuya to gateway interface, add the sub



5.Add the sensor to the gateway and finish the connection



3.Make sure the sensor in the pairing mode(LED already blink)



6. The interface of soil



- 1. Install the sensor, please insert the probe vertically into the soil 2. The probe should be in full touch with the soil and compacted to ensure
- the accuracy of the data. the accuracy of the data.

 3. The soil sensor only tests soil and mud, and is not applicable to flour, prickly pear, organic crumbs, liquid particles, etc.

 4. When the soil sensor is installed, please try to place the probe into the soil
- 5. The depth and tightness of the probe between soil will directly affect the
- value and lead to errors. In order to improve the accuracy, please use the method of multi-point testing to obtain the average value.
- 6. When using, be careful not to touch the stone, and do not use too much force to push the probe, otherwise the probe will be easily damaged.

 7. After the measurement, the probe must be cleaned with paper or cloth in
- 8. When the sensor is not in use and stored, do not rub or scratch the probe directly with your hands, keep it clean and dry, and away from magnetic objects and other metal objects.
- 9.Please follow the waste battery recycling process for battery recycling to avoid environmental pollution.

Test Considerations:

- 1. How much the moisture is the best: The dry, sandy and fertile soil is not good for accuracy data. In the dry or fertile soil, splash some water around the sensor and wait for half hour to test. $40\%\mbox{-}70\%$ moisture is the best.
- 2. Different data for each test: The depth, density, humidity and other values in each layer of soil are different, and they will directly affect the data accuracy. It is necessary to perform multiple measurements at different locations and take the average value. When measuring, it needs to be at the same level of depth, and the soil around the probe must be evenly distributed and fully compacted and in close contact with the probe surface. Before each remeasurement, thoroughly clean the probe with a paper or

Warranty Card

Product name Date of manufacture

Contact number

Customer address After sales: Warranty content

Customer signature ____ — ☐ Satisfy ☐ Dissatisfied Warranty and After Sales:

1. The warranty period of the host circuit is one year, and the warranty period of the probe is half a year.

2. During the warranty period, if the fault occurs under normal use in accordance with the instruction manual (judged by the company's official staff), it will be repaired free

of charge.

3. During the warranty period, if one of the following situations occurs, it must be repaired as a fee:

- ① This warranty and valid proof of purchase cannot be provided.
- ② Malfunctions and damages caused by misuse and improper repairs by users
- 3 Damage caused by transportation, handling, or dropping after receiving the product.
- 4 Damage caused by other unavoidable bad factors.
- Malfunction or damage caused by equipment soaking.
 Only the above warranties are made, and no other express or implied warranties are $made \ (including \ implied \ warranties \ of \ merchantability, reasonableness \ and \ adaptability \ for a specific application \ and \ application, etc.), whether in the contract, \ and \ adaptability \ for \ a specific \ application \ and \ application, etc.), whether in the \ contract, \ and \ adaptability \ for \ a specific \ application \ and \ application, etc.)$ negligence On, or otherwise, the company is not responsible for any special, incidental or consequential damages

FCC Warnning:

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 againstharmful interference in a residential installation. This equipment generates, uses and can radiateradio frequency energy and, if not installed and used in accordance with the instructions, maycause harmful interference to radio communications. However, there is no guarantee thatinterference will not occur in a particular installation. If this equipment does cause harmfulinterference to radio or television reception, which can be determined by turning the equipmentoff and on, the user is encouraged to try to correct the interference by one or more of thefollowing 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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.