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› Haozee Smart Zigbee Soil Moisture Sensor Instruction Manual

Haozee HZ-SL04

Haozee Smart Zigbee Soil Moisture Sensor Instruction Manual

Model: HZ-SL04 | Brand: Haozee

1. PRODUCT OVERVIEW

The Haozee Smart Zigbee Soil Moisture Sensor is designed to help you monitor your plants' health by detecting ambient temperature and soil moisture levels in real-time. This device requires a Zigbee gateway (such as a TUYA HUB or Home Assistant with Zigbee2mqtt) to function and transmit data. It is suitable for various applications including greenhouses, gardens, lawns, and indoor plants.



Image: The Haozee Smart Zigbee Soil Moisture Sensor shown alongside a smartphone displaying its companion application, which visualizes humidity and temperature data. The sensor is partially inserted into soil with a small plant.

2. SETUP AND INSTALLATION

2.1. Components and Requirements

- Haozee Smart Zigbee Soil Moisture Sensor (1 unit)
- AAA Batteries (2x, not included)
- Zigbee Gateway (e.g., TUYA HUB, Home Assistant with Zigbee2mqtt)
- Compatible smartphone application (e.g., Smart Life app)

Zigbee Hub Required

Work with tuya zigbee hub or home assistant zigbee2mqtt



Moisture



Temperature



Image: The soil moisture sensor inserted into a potted plant, emphasizing the requirement for a Zigbee hub to operate.

2.2. Battery Installation

1. Locate the battery compartment on the sensor handle.
2. Open the compartment cover.
3. Insert two AAA batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.



Image: A detailed diagram illustrating the dimensions of the sensor and the location of the battery compartment, button, and LED indicator.

2.3. Pairing with Zigbee Gateway

The sensor must be paired with a compatible Zigbee gateway to transmit data. Follow the instructions provided with your specific Zigbee gateway and smartphone application (e.g., Smart Life app) for pairing. Typically, this involves putting the gateway into pairing mode and then activating the sensor (often by pressing a button on the sensor, as indicated in the battery compartment diagram).

- Ensure your Zigbee gateway is powered on and connected to your network.
- Open your Zigbee control application (e.g., Smart Life, Home Assistant).
- Initiate the device pairing process within the application.
- Press the pairing button on the Haozee sensor (located near the battery compartment) to activate its pairing mode.
- Confirm successful pairing in the application.

2.4. Sensor Placement

For accurate measurements, ensure the sensor is properly placed in the soil.

- Insert at least two-thirds of the sensor probe into the soil.
- Ensure the surface of the sensor probe is clean before insertion.
- Avoid placing the sensor directly in standing water or extremely dense, compacted soil.



Image: A person's gloved hands inserting the soil moisture sensor into a potted plant, demonstrating its use in a home gardening context.

3. OPERATING INSTRUCTIONS

3.1. Real-Time Monitoring

Once paired, the sensor will transmit real-time soil moisture and ambient temperature data to your connected Zigbee gateway and smartphone application. You can view current readings and historical data within the app.

Remotely Monitor

ambient temperature and soil moisture



Image: The soil moisture sensor placed among various plants in a garden, illustrating its remote monitoring capability.

Zigbee wireless connection

APP real-time display of soil moisture and air temperature and show them in the form of curves

Note: It needs a Tuya Zigbee hub to work.



Image: A series of smartphone screens displaying the application interface for real-time viewing of soil humidity and temperature data, including historical graphs.

3.2. Temperature Unit Switching

The sensor allows you to switch between Celsius (°C) and Fahrenheit (°F) temperature units. This can typically be done via a button on the sensor itself or within the connected smartphone application, depending on the specific Zigbee integration.

2xAAA Battery(battery not include)

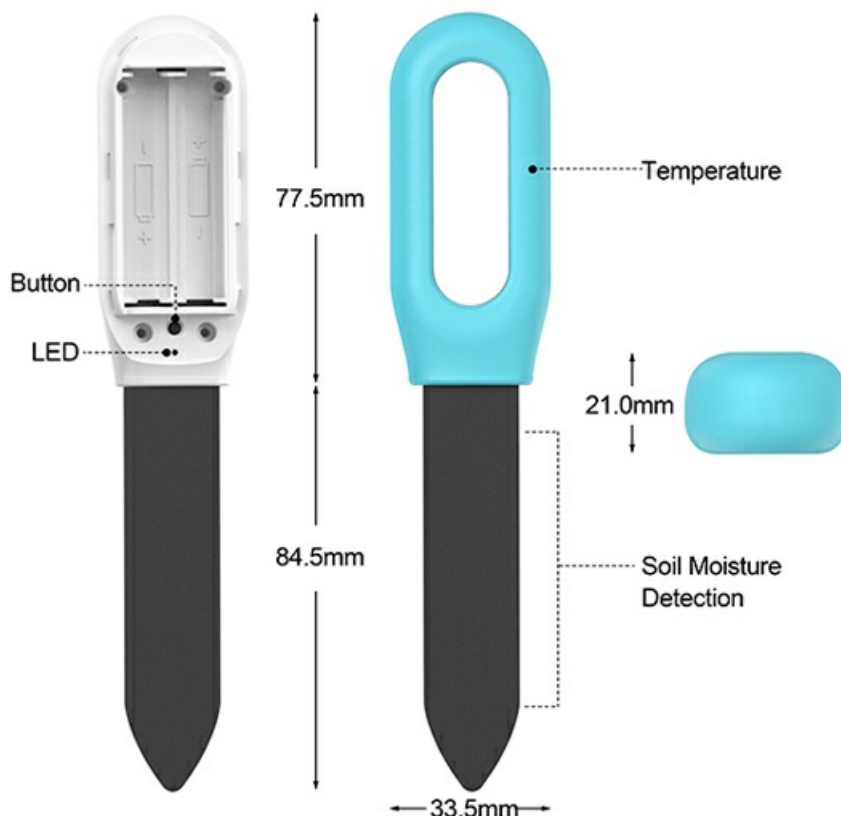


Image: A visual guide demonstrating how to switch between Celsius and Fahrenheit temperature readings using a button on the sensor and observing the change reflected in the mobile application.

3.3. Smart Scene Linkage (Automation)

Leverage the sensor's data to create automated routines within your smart home ecosystem. For example, you can link the soil moisture sensor with a smart watering timer to automatically water plants when the soil humidity drops below a set threshold.

Made of PC and ABS materials

Can be inserted into the soil without having to pull it out every time



Image: A balcony garden setup with various potted plants, illustrating an automated drip irrigation system that can be linked with the soil moisture sensor for smart watering.

4. MAINTENANCE

4.1. Cleaning the Sensor

To ensure accurate readings and prolong the sensor's lifespan, regularly clean the probe section. Wipe off any accumulated soil, debris, or mineral deposits with a soft, damp cloth. Do not use abrasive cleaners or submerge the entire unit in water.

4.2. Battery Replacement

When the battery level is low (indicated in your smart home application), replace the two AAA batteries following the instructions in Section 2.2. Using high-quality alkaline batteries is recommended for optimal performance and longevity.

4.3. Durability and Material Care

The sensor is constructed from PC and ABS materials, offering good resistance to impact, heat, low temperatures, and chemicals. While designed for durability, avoid exposing the sensor to extreme physical shock or prolonged submersion in water beyond the probe section.

Automated drip irrigation system

Automatic drip irrigation system is linked with smart water pump

When the humidity is lower than the value set on the APP,
for example, less than 30%, the flowers will be watered automatically.



Image: The soil moisture sensor positioned among various potted plants, highlighting its construction from durable PC and ABS materials, allowing it to remain inserted in soil.

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Sensor not reporting data / No readings in app	◦ Not paired with Zigbee gateway. ◦ Weak or no Zigbee signal. ◦ Dead or low batteries. ◦ Sensor probe is dirty or improperly inserted.	◦ Ensure the sensor is correctly paired with your Zigbee gateway (refer to Section 2.3). ◦ Move the sensor closer to the Zigbee gateway or a Zigbee router. ◦ Replace the AAA batteries (refer to Section 4.2). ◦ Clean the sensor probe and re-insert at least two-thirds into the soil (refer to Section 4.1 and 2.4).
Inaccurate moisture or temperature readings	◦ Sensor probe is not inserted deep enough. ◦ Sensor probe is dirty. ◦ Sensor is exposed to direct sunlight (for temperature). ◦ Soil conditions are highly variable.	◦ Ensure at least two-thirds of the probe is in the soil. ◦ Clean the sensor probe thoroughly. ◦ Relocate the sensor to a shaded area if temperature readings are consistently high due to direct sun exposure. ◦ Understand that soil moisture can vary significantly even within a small area.
Battery reported as low, but sensor still functions	◦ Using NiMH rechargeable batteries instead of alkaline. ◦ Inaccurate battery reporting by the Zigbee system.	◦ If using NiMH, this is expected due to lower voltage (2.4V vs 3V for alkaline). Functionality should not be impacted until voltage drops further. ◦ Monitor actual performance; replace batteries when the sensor stops reporting or behaves erratically.

6. SPECIFICATIONS

Feature	Detail
Model Number	HZ-SL04
Product Dimensions	1.42"W x 6.42"H (1.42 x 1.42 x 6.42 inches)
Item Weight	0.07 Pounds (1.12 ounces)
Color	Turquoise
Manufacturer	Haozee
Connectivity	Zigbee (requires Zigbee gateway)

Feature	Detail
Power Source	2x AAA Batteries (not included)
Materials	PC and ABS
Functions	Soil Moisture Detection, Ambient Temperature Detection

6.1. What's in the Box

- 1x Haozee Smart Zigbee Soil Moisture Sensor

7. SUPPORT AND WARRANTY

For technical support, product inquiries, or warranty information, please contact Haozee customer service through the platform where you purchased the product or visit the official Haozee store on Amazon. Keep your purchase receipt as proof of purchase.

While specific warranty details are not provided in this manual, standard consumer rights and return policies apply. Please refer to the seller's return policy for details (e.g., 30-day refund/replacement policy mentioned in product data).

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question