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MOES MS-103

MOES WiFi Smart Temperature and Humidity Switch Module Sensor User Manual

Model: MS-103
Brand: MOES

1. Introduction

The MOES WiFi Smart Temperature and Humidity Switch Module Sensor (Model MS-103) is a versatile dual relay output controller designed for smart home automation. It allows for wireless remote control via the Smart Life/Tuya App and integrates with voice assistants like Amazon Alexa and Google Assistant. This kit includes a temperature and humidity probe for real-time environmental monitoring.

Key Features:

- Dual Relay Output: Connects to both refrigeration and heating equipment simultaneously.
- Real-time Temperature & Humidity Detection: Utilizes an included probe (non-waterproof for humidity, waterproof for temperature).
- Wireless Control: Manage devices remotely via the Smart Life App (Android 4.4/IOS 8.0 or above).
- Flexible Operation Modes: Manual and auto modes available.
- Timing Functions: Supports scheduling and countdown for connected devices.
- Voice Control: Compatible with Amazon Alexa and Google Assistant.
- Device Sharing & Group Control: Share access with family and manage multiple devices together.
- Smart Automation: Integrates with other smart devices for advanced scenarios.

Important Note: This device requires a neutral wire for installation and only supports 2.4GHz WiFi networks (not 5GHz). The temperature and humidity probe is not waterproof, while the waterproof temperature probe is available in a different variant.

2. Setup and Installation

2.1 Safety Precautions

Before beginning any installation, ensure the main circuit breaker is turned off to prevent electrical shock. It is recommended to consult a qualified electrician if you are unsure about any wiring procedures.

▶ **Watch video online**

Installation of Temperature and Humidity Switch Module Sensor

Video 1: Installation of Temperature and Humidity Switch Module Sensor. This video demonstrates the complete installation process, including safety steps and wiring.

2.2 Tools Required

- Wire Stripper
- Electric Pen (Voltage Tester)
- Electrical Tape
- Wiring Terminal (optional, for secure connections)

2.3 Wiring Instructions

The module features terminals for Live (L), Neutral (N), Ground (G), and two switched outputs (L1, L2) for connecting your devices. Ensure correct polarity and secure connections.

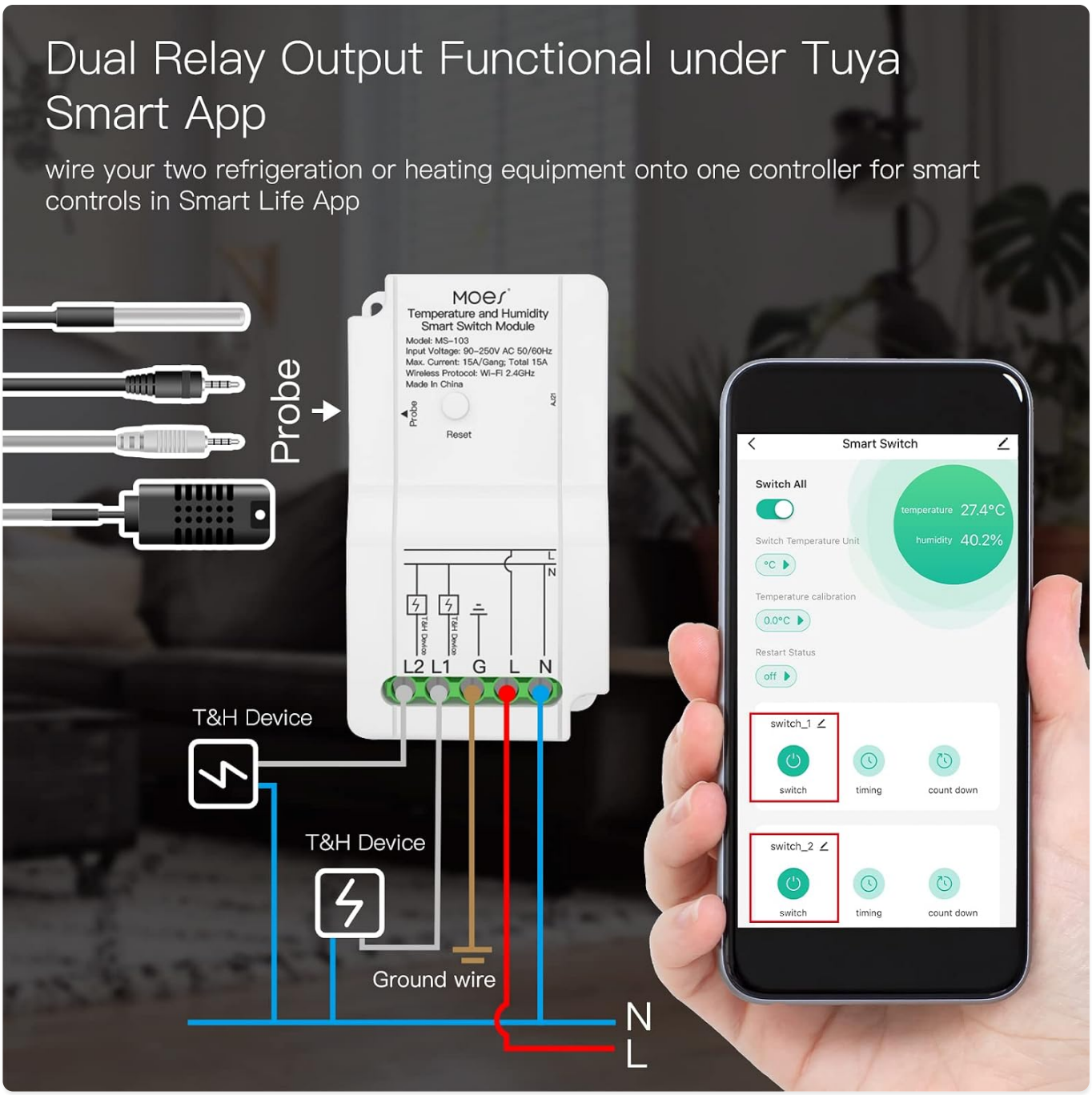


Image 1: Wiring diagram for the MOES Smart Temperature and Humidity Switch Module. This diagram illustrates the connections for Live, Neutral, Ground, and the two device outputs (T&H Device 1 and T&H Device 2).

The earth wire connection is optional. After wiring, turn on the circuit breaker.

2.4 Connecting to the Smart Life App

To connect your device to the Smart Life App:

1. Download the Smart Life App from your app store (Android 4.4/IOS 8.0 or above).
2. Ensure your phone is connected to a 2.4GHz WiFi network.
3. Open the app and add a new device. The blue indicator light on the module should be flashing rapidly for network configuration.
4. Follow the in-app instructions to complete the pairing process.

2.5 Probe Connection

Plug the temperature and humidity probe into the designated port on the module. The app will only detect real-time data from the probe once it is plugged in and the corresponding switch is enabled in the app.

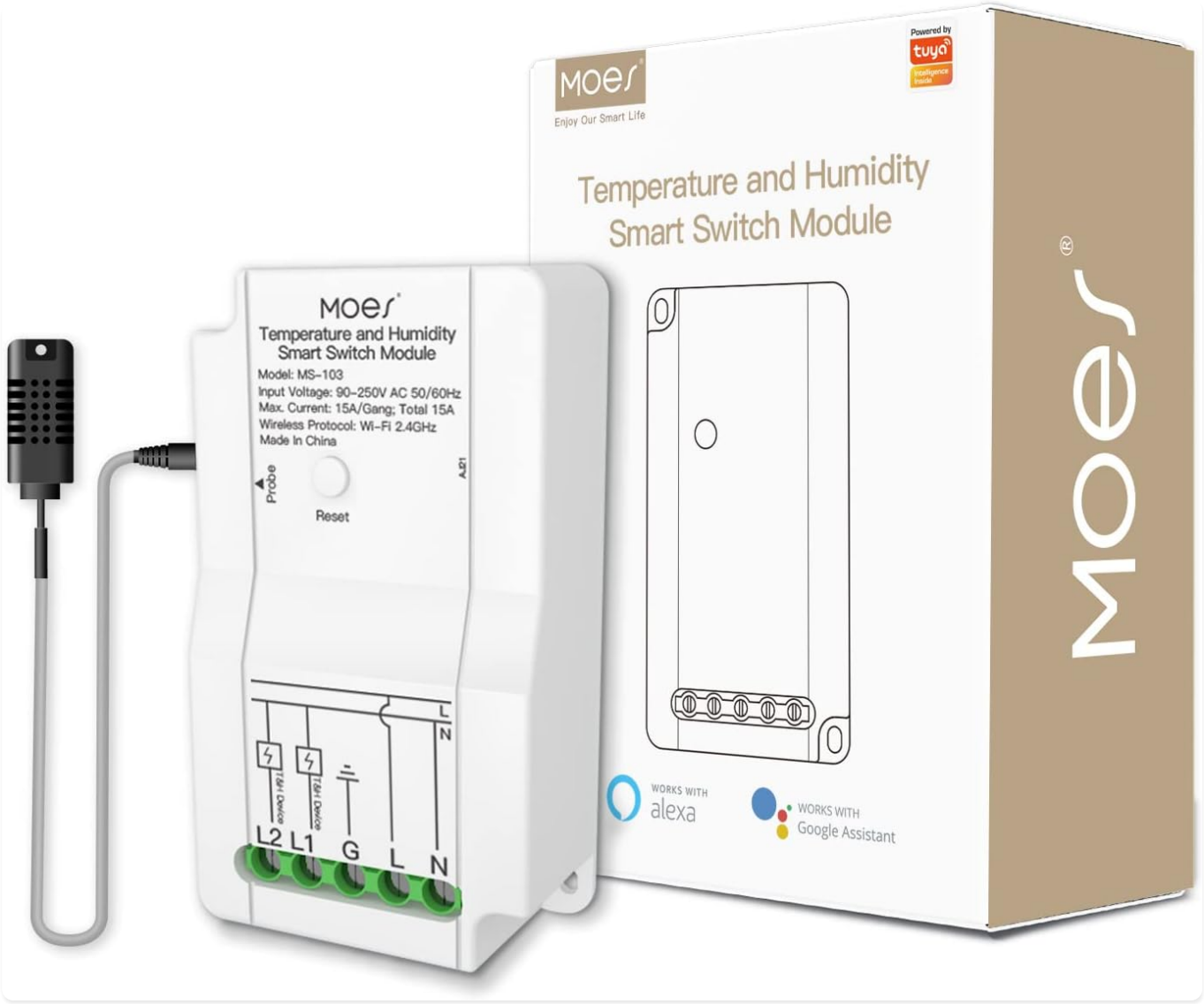


Image 2: The MOES Smart Switch Module shown with its temperature and humidity probe connected.

2.6 Resetting/Pairing WiFi Code

To reset or re-pair the WiFi code, long press the reset button on the module until the indicator light flashes, signaling it is ready for reset or pairing mode.

3. Operating the Device

3.1 Temperature & Humidity Control

The Smart Life App provides comprehensive control over temperature and humidity. You can switch between Celsius (°C) and Fahrenheit (°F) units. The device supports both manual and automatic control modes.

- **Manual Mode:** Allows you to manually turn the connected devices (e.g., heating, cooling, humidifiers) on or off directly from the app.
- **Auto Mode:** Set specific temperature or humidity thresholds. The module will automatically turn devices on or off to maintain the desired environment. For example, in a greenhouse, you can set a temperature range for a fan heater to operate automatically.

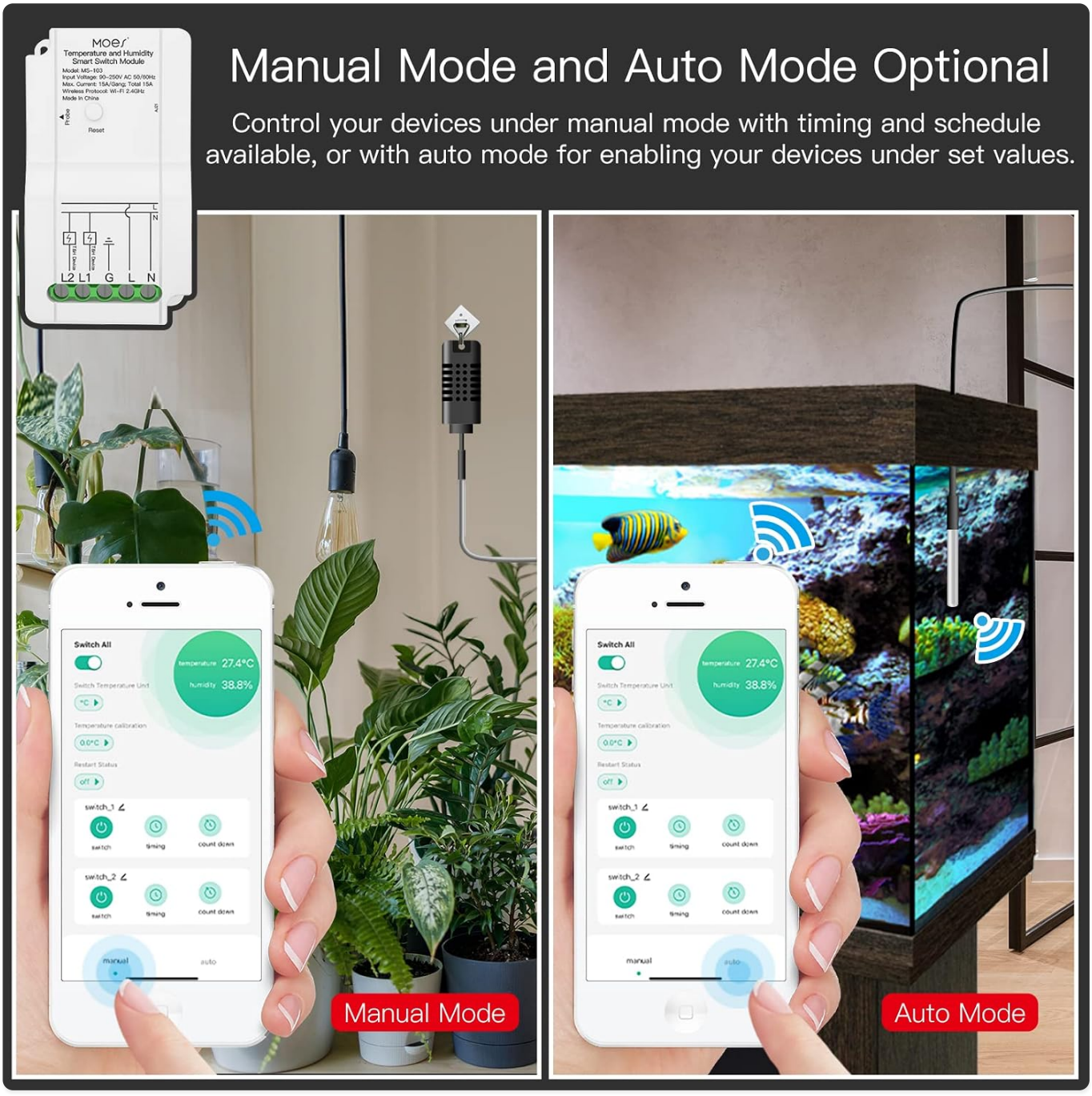


Image 3: Illustration of Manual and Auto Modes within the Smart Life App, showing control over devices like a light bulb and an aquarium heater based on environmental conditions.

▶ **Watch video online**
Function of Temperature and Humidity Switch

Video 2: Function of Temperature and Humidity Switch. This video demonstrates the various control modes and practical applications of

the switch module.

3.2 Dual Relay Output Functionality

The module's dual relay output allows you to control two separate devices independently or simultaneously. This is ideal for scenarios requiring both heating and cooling, or humidification and dehumidification, managed by a single controller.

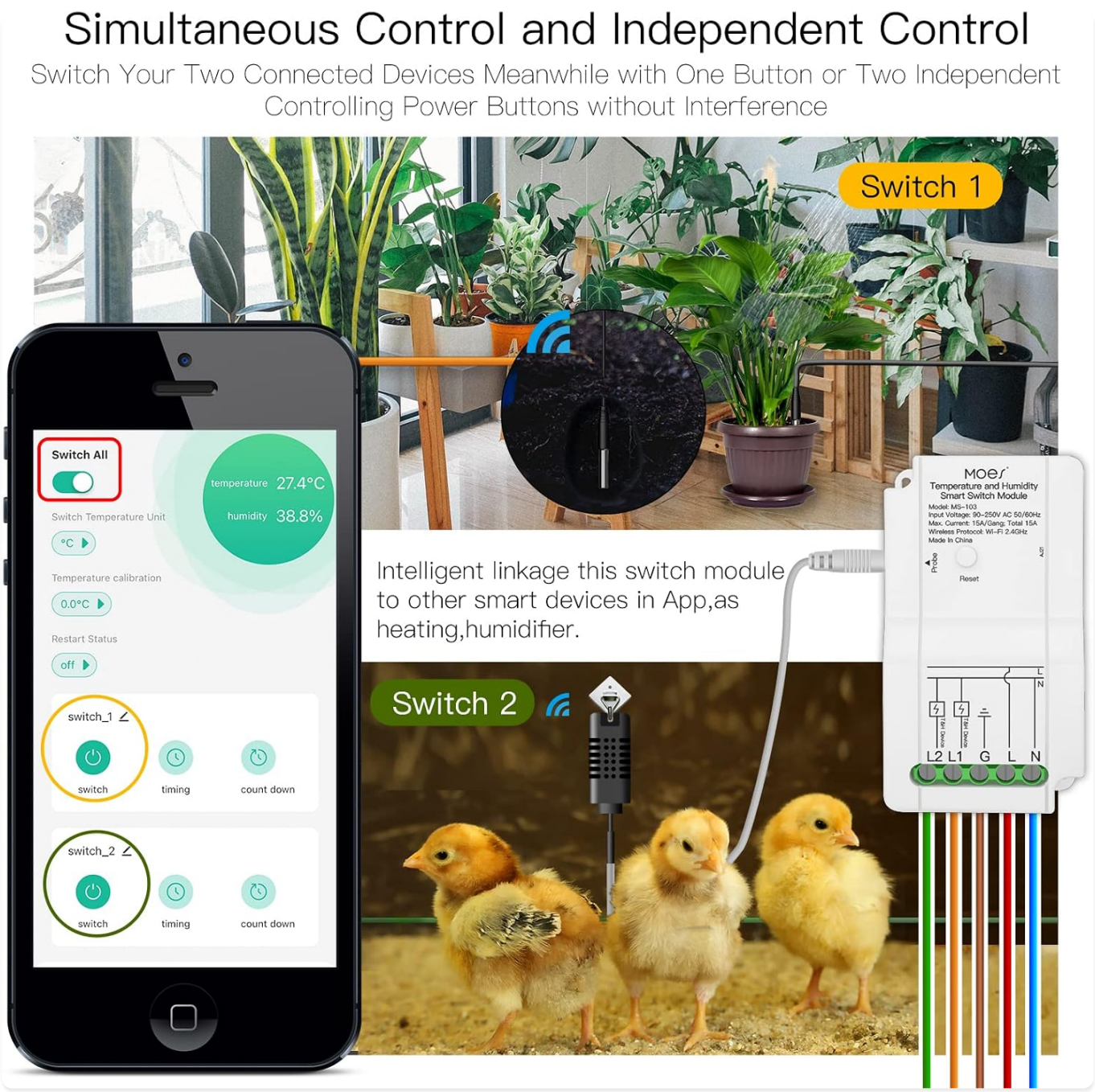


Image 4: Demonstrates simultaneous and independent control of two connected devices, such as managing environmental conditions for plants or chicks.

3.3 Timing and Countdown Functions

Set schedules for your devices to turn on or off at specific times. The countdown function allows for temporary operation for a set duration. These features provide precise control over your environment, even when you are away.

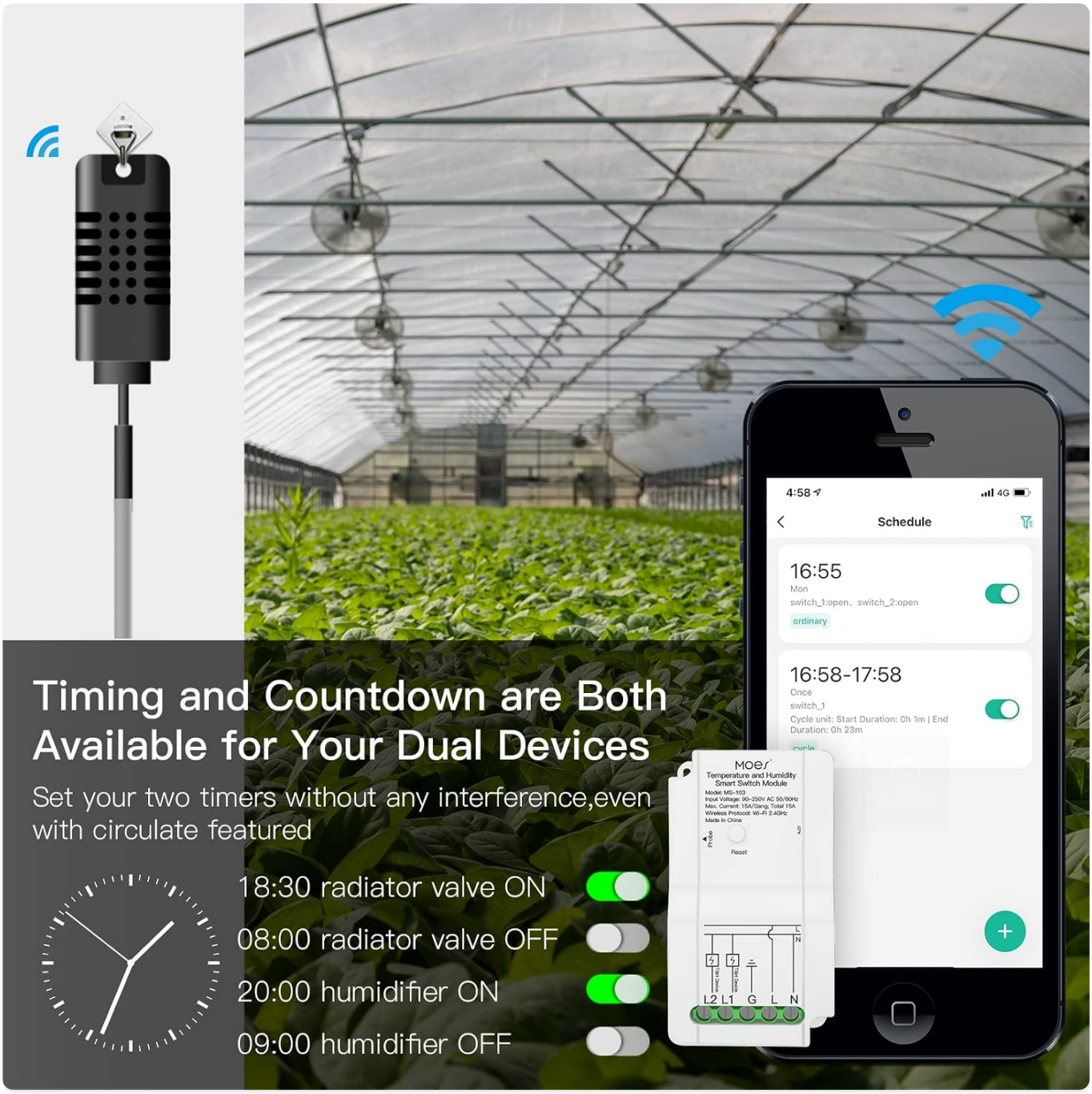


Image 5: The Smart Life App interface showing options for setting schedules and countdown timers for dual devices, useful for applications like greenhouse climate control.

3.4 Voice Control Integration

The MOES Smart Switch Module is compatible with Amazon Alexa and Google Assistant. You can use voice commands to control your connected devices, offering hands-free convenience.

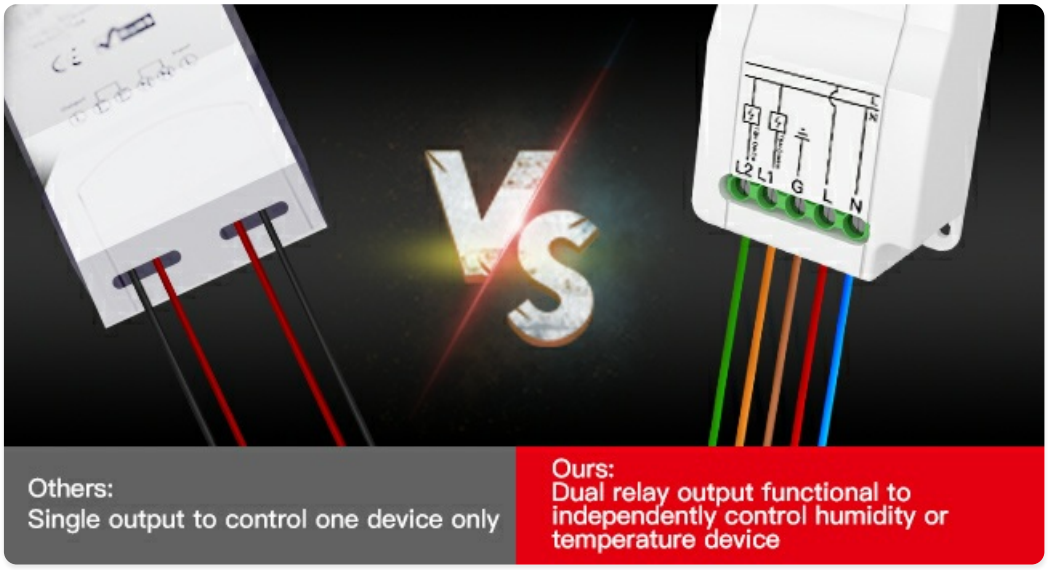


Image 6: Demonstrates voice control functionality with Amazon Alexa and Google Assistant, allowing users to turn devices on or off using simple commands.

3.5 Device Sharing and Group Control

Share control of your smart switch module with family members through the Smart Life App. You can also create groups to control multiple smart devices simultaneously, simplifying management of your smart home ecosystem.

3.6 Smart Automation

Leverage the Smart Life App's automation features to create intelligent scenarios. For example, you can set up rules based on temperature, humidity, time, or other smart device statuses to trigger actions on your switch module, creating a fully integrated and responsive environment.

4. Specifications

Attribute	Value
Model Number	MS-103
Package Dimensions	4.13 x 3.27 x 1.46 inches
Item Weight	3.84 ounces
Manufacturer	Wenzhou Morning Electronics Co.,LTD
Country of Origin	China
Voltage	250 Volts
Color	White
Batteries Required	No

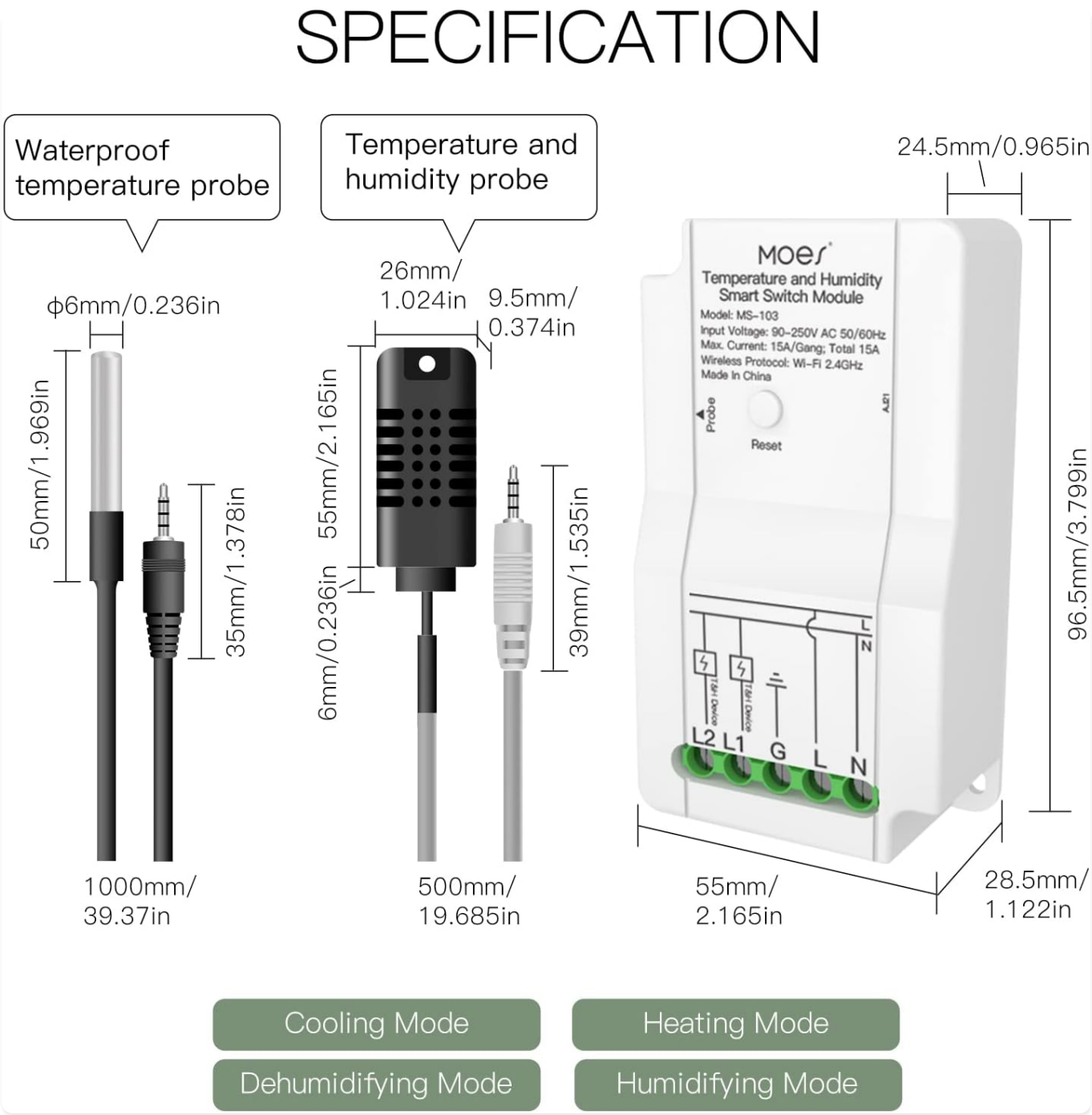


Image 7: Detailed specification diagram showing dimensions of the switch module and both temperature and humidity probes.

5. Maintenance

To ensure optimal performance and longevity of your MOES Smart Temperature and Humidity Switch Module, follow these simple maintenance guidelines:

- **Cleaning:** Periodically wipe the module and probes with a dry, soft cloth. Do not use abrasive cleaners or immerse the non-waterproof probe in liquids.
- **Connection Check:** Occasionally inspect the wiring connections to ensure they remain secure.
- **Software Updates:** Keep the Smart Life App updated to the latest version to benefit from new features and performance improvements.

6. Troubleshooting

If you encounter issues with your MOES Smart Temperature and Humidity Switch Module, refer to the following common troubleshooting steps:

- **Device Not Connecting to WiFi:**
  - Ensure your WiFi network is 2.4GHz. The device does not support 5GHz networks.
  - Verify that your WiFi router is within range and has a strong signal.
  - Try resetting the module by long-pressing the reset button until the indicator flashes.
  - Check if your WiFi network name (SSID) contains only English letters and numbers.
- **Probe Data Not Displaying in App:**
  - Ensure the probe is securely plugged into the module.
  - Verify that the corresponding switch for the probe is enabled in the Smart Life App.
- **Device Not Responding to Commands:**
  - Check the power supply to the module.
  - Confirm that the module is still connected to your WiFi network (check indicator light status).
  - Restart the Smart Life App or your smartphone.
- **Incorrect Temperature/Humidity Readings:**
  - Ensure the probe is placed in an area representative of the environment you wish to monitor, away from direct heat sources or drafts.
  - Note that the standard temperature and humidity probe is not waterproof. Exposure to moisture can affect readings.

For further assistance, refer to the FAQ section within the Smart Life App or contact MOES customer support.

7. Warranty and Support

MOES products are designed for reliability and performance. For information regarding product warranty, returns, or technical support, please visit the official MOES website or contact their customer service department. Keep your purchase receipt as proof of purchase for warranty claims.
Manufacturer: Wenzhou Morning Electronics Co.,LTD

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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

Answered questions about this manual

I am using six MOES MS-103 modules. Five work correctly, but one unit with a 15m sensor cable extension (Type JYStY 4x0.8) fails sporadically and requires a power reset. I have already replaced both the module and the sensor; what could be causing this?

The sporadic failure of your MOES MS-103 is likely caused by the 15-meter cable extension. While the manual does not specify a maximum cable length, long extensions for digital sensors (like the temperature/humidity probe...

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