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MOES WTP-YC-US2-BK-MS

MOES Smart WiFi Cooling Heating Thermostat Outlet User Manual

Model: WTP-YC-US2-BK-MS

1. Introduction

The MOES Smart WiFi Cooling Heating Thermostat Outlet (Model WTP-YC-US2-BK-MS) is a digital temperature controller designed for precise environmental management. It features both heating and cooling control capabilities, a remote sensor probe, and smart connectivity via the Smart Life App. This device is suitable for various applications requiring automated temperature regulation, such as reptile enclosures, fermenters, brewing setups, breeding environments, and greenhouses.

This manual provides essential information for the safe and effective operation of your thermostat outlet, including setup instructions, operational guidelines, maintenance tips, and troubleshooting solutions.



Image 1.1: MOES Smart WiFi Cooling Heating Thermostat Outlet with its components and smartphone app interface.

2. Safety Information

Please read all safety instructions before using this product to prevent injury or damage. Retain this manual for future reference.

- Ensure the power supply voltage matches the device's requirements (AC 100-250V, 50/60Hz).
- Do not exceed the maximum load capacity of 10A / 1250W for each outlet.
- Avoid exposing the main controller unit to water or excessive moisture. The temperature probe is salt and spray resistant, but the main unit is not waterproof.
- Do not disassemble or modify the device. Unauthorized modifications may void the warranty and pose safety risks.
- Keep the device out of reach of children and pets.
- Ensure proper ventilation around the device and connected appliances.
- Unplug the device from the power outlet before cleaning or performing any maintenance.

3. Package Contents

Verify that all items are present in the package:

- 1 x MOES Smart WiFi Temperature Controller Unit
- 1 x Dual Outlet Power Strip (Heating & Cooling)
- 1 x Temperature Sensor Probe with Suction Cup
- 1 x User Manual (this document)

4. Product Overview

Familiarize yourself with the components and controls of your MOES Smart WiFi Thermostat Outlet.



Image 4.1: Front view of the controller unit with labeled buttons and display elements.

Controller Unit Features:

- **LCD Display:** Shows current temperature, set high/low temperatures, WiFi status, and heating/cooling indicators.
- **Power Button:** Turns the device on/off.

- **Setting Button:** Accesses temperature settings and other configurations.
- **Increase/Decrease Buttons:** Adjusts temperature values and navigates menu options.

Dual Outlet Power Strip:

- **Heating Outlet:** Connect heating devices (e.g., heat mat, ceramic heater).
- **Cooling Outlet:** Connect cooling devices (e.g., fan, chiller).

5. Setup

5.1 Physical Connection

1. Plug the main power cord of the thermostat outlet into a standard electrical wall outlet.
2. Connect your heating device to the outlet labeled "HEATING" on the dual outlet power strip.
3. Connect your cooling device to the outlet labeled "COOLING" on the dual outlet power strip.
4. Place the temperature sensor probe in the desired location where temperature monitoring is required. Ensure the probe is fully immersed if used in liquid, or securely positioned in the air/substrate. The suction cup can be used to secure the probe.



Image 5.1: Example setup with the thermostat controlling a heating element in a fish tank.



Image 5.2: The thermostat outlet in use with a heat mat for plant propagation.

5.2 App Installation and Device Pairing

The MOES Smart WiFi Thermostat Outlet works with the Smart Life App (Tuya platform).

1. Download the "Smart Life" app from the App Store (iOS) or Google Play Store (Android).
2. Register or log in to your Smart Life account.
3. Ensure your smartphone is connected to a 2.4GHz WiFi network. The device does not support 5GHz WiFi.
4. Press and hold the Power button on the controller unit for 5-7 seconds until the WiFi indicator light flashes rapidly, indicating pairing mode.
5. In the Smart Life app, tap the "+" icon in the top right corner to add a device.
6. Select "Electrical Outlet" or "Thermostat" from the device list, or use the auto-scan feature.
7. Follow the in-app instructions to connect the device to your WiFi network. You may need to confirm the flashing indicator light and enter your WiFi password.

8. Once successfully paired, you can rename the device and assign it to a room.

6. Operating Instructions

6.1 Manual Temperature Setting

You can set the desired temperature range directly on the controller unit.

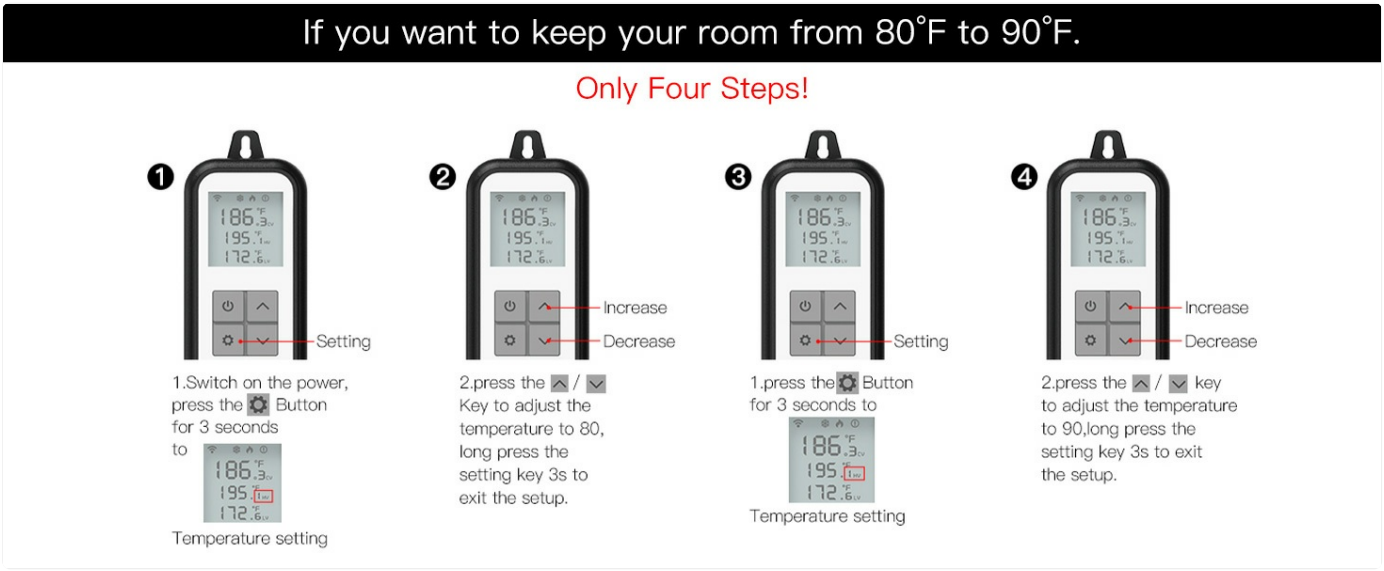


Image 6.1: Step-by-step guide for setting temperature directly on the device.

1. **Turn On:** Press the Power button to turn on the device.
2. **Set Low Temperature (Heating Threshold):** Press the Setting button once. The low temperature value will flash. Use the Increase/Decrease buttons to set your desired minimum temperature. Press the Setting button again to confirm.
3. **Set High Temperature (Cooling Threshold):** After setting the low temperature, the high temperature value will flash. Use the Increase/Decrease buttons to set your desired maximum temperature. Press the Setting button again to confirm and exit the setup.
4. The device will now automatically activate the heating outlet when the temperature drops below the low set point and the cooling outlet when it rises above the high set point.

To switch between Fahrenheit (°F) and Celsius (°C), long press the Increase and Decrease buttons simultaneously.

6.2 App Remote Control

The Smart Life App provides advanced control and monitoring features.

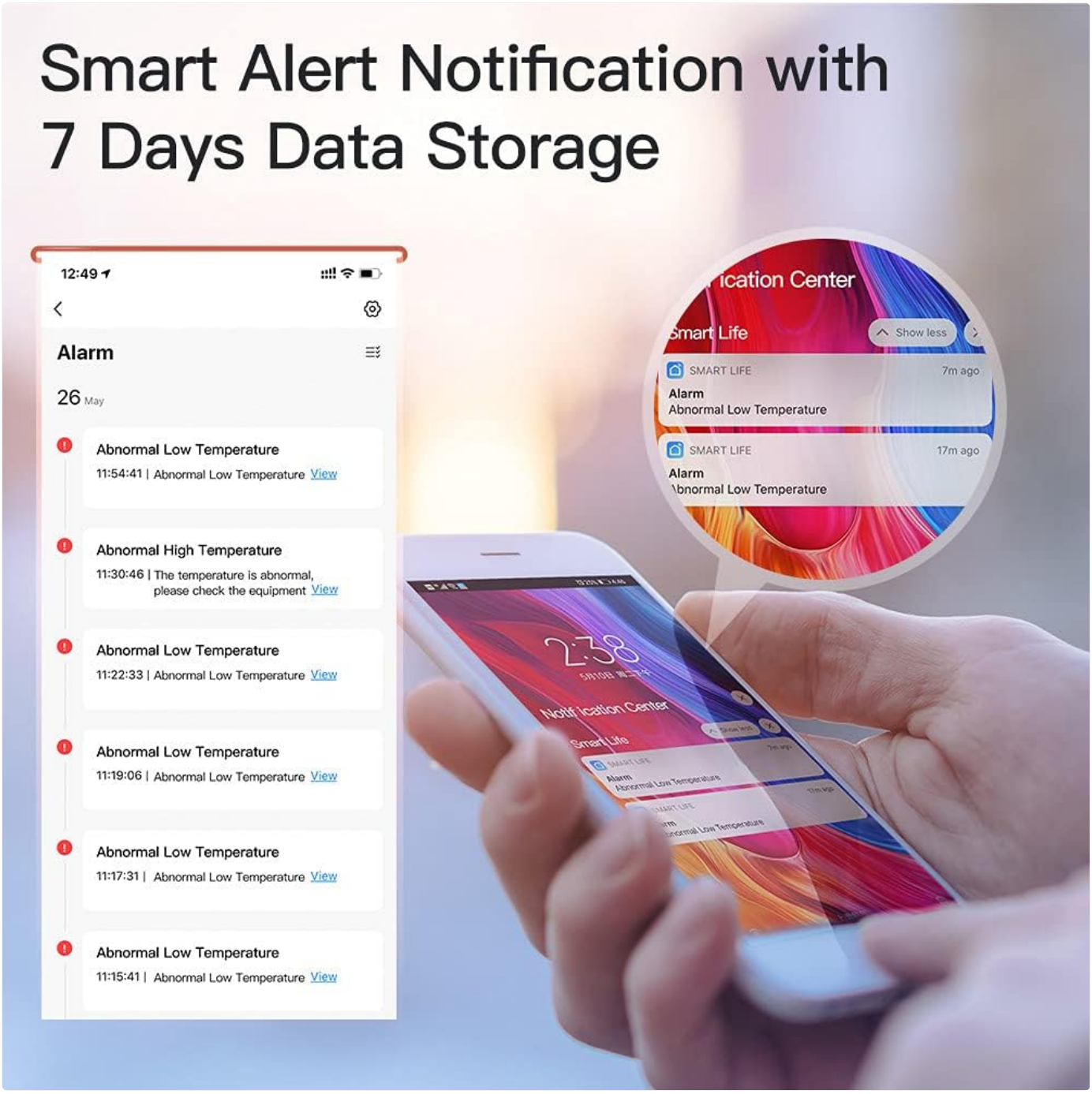


Image 6.2: The Smart Life App interface for remote temperature monitoring and control.

- **Remote Monitoring:** View the current temperature, set points, and device status from anywhere via the app.
- **Temperature Adjustment:** Easily adjust heating and cooling set points within the app.
- **Data Records:** Access temperature history data for up to 7 days, allowing for intelligent adjustments and scene monitoring.
- **Smart Alerts:** Configure custom temperature ranges. If the temperature exceeds or falls below the set range, an alert notification will be sent to your smartphone.



Image 6.3: Example of smart alert notifications for abnormal temperatures received on a smartphone.

6.3 Upgrade Mode (Compressor Delay Protection)

The device incorporates an upgraded program to prevent rapid cycling of connected appliances, particularly compressors. Once the thermostat reaches its set value, it will operate for a period of time to maintain a stable temperature, rather than immediately turning off and on. This feature helps extend the lifespan of your heating and cooling equipment.

7. Maintenance

- **Cleaning:** Disconnect the device from power before cleaning. Wipe the controller unit and power strip with a soft, dry cloth. Do not use abrasive cleaners or immerse the units in water.
- **Probe Care:** The temperature probe is designed to be durable and salt-proof. Regularly inspect the probe for any signs of damage or wear. Clean the probe gently if residue builds up, which could affect accuracy. The probe is replaceable if damaged.
- **Storage:** If storing the device for an extended period, unplug it and store it in a cool, dry place away from direct

sunlight.

8. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	No power from wall outlet; device not properly plugged in.	Check wall outlet with another appliance. Ensure the thermostat is securely plugged in.
Cannot connect to WiFi.	Incorrect WiFi password; 5GHz network used; device too far from router; pairing mode not activated.	Ensure correct 2.4GHz WiFi network and password. Move device closer to router. Re-enter pairing mode (long press Power button).
Inaccurate temperature readings.	Probe not properly placed; probe damaged; environmental interference.	Ensure probe is correctly positioned and clean. Check for physical damage to the probe. If issues persist, the probe may need replacement.
Heating/Cooling device not turning on/off.	Temperature settings incorrect; device not plugged into correct outlet; appliance malfunction.	Verify set high/low temperatures. Ensure heating device is in "HEATING" outlet and cooling device in "COOLING" outlet. Test connected appliances directly.
Device cycles on/off too frequently.	Temperature differential (hysteresis) too narrow; rapid temperature fluctuations in environment.	The device has an "Upgrade Mode" to mitigate this. Ensure it's functioning. Consider if the environment itself has extreme, rapid temperature changes.
Buzzer alarm is annoying.	Buzzer is enabled.	Long press the Decrease button to turn the buzzer on/off.

9. Specifications

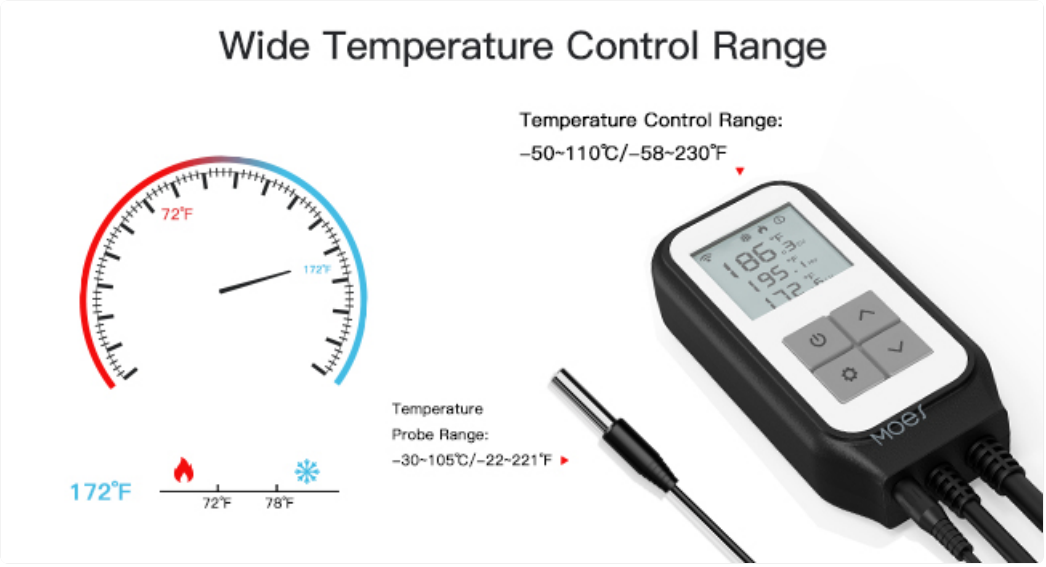


Image 9.1: Visual representation of the wide temperature control range.

Feature	Detail
Model Number	WTP-YC-US2-BK-MS

Feature	Detail
Brand	MOES
Power Supply	AC 100-250V, 50/60Hz
Rated Current	10A Max
Rated Wattage	1250W (US standard) / 2500W (EU standard)
Temperature Measurement Range	-30°C to 105°C (-22°F to 221°F)
Temperature Control Range	-50°C to 110°C (-58°F to 230°F)
Temperature Accuracy	1%
Connectivity	Wi-Fi (2.4GHz only)
App Control	Smart Life App (Android 4.4 / iOS 8.0 or above)
Controller Type	Amazon Alexa, Google Home compatible
Display Type	Digital LCD with Backlight
Probe Type	R25=10K Ω ±1% B25/85=3435K ±1%
Data Storage	7 days in app
Item Weight	0.47 Kilograms (1.04 pounds)
Package Dimensions	7.76 x 3.98 x 3.27 inches

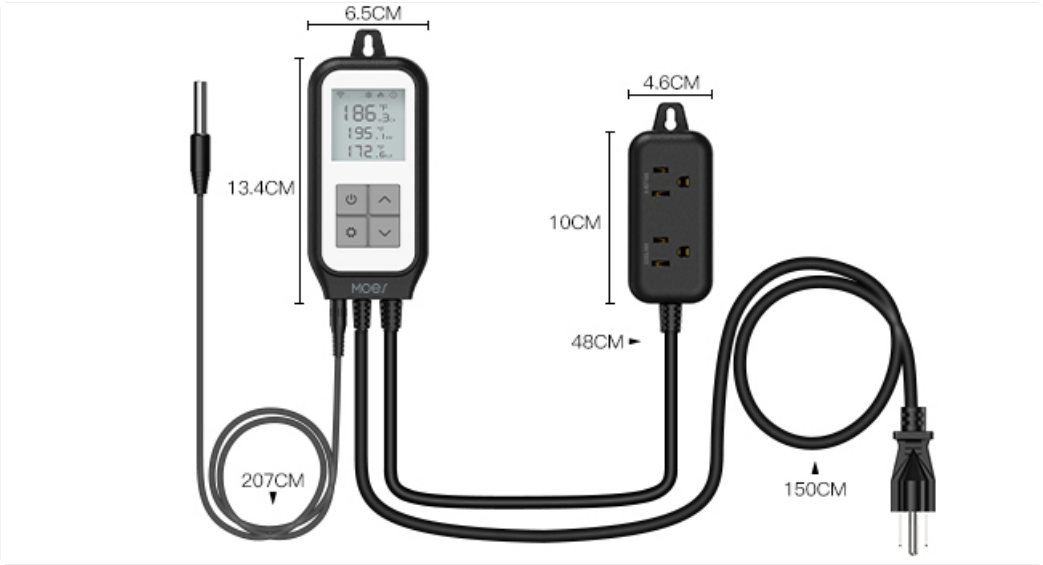


Image 9.2: Dimensions of the MOES Smart WiFi Thermostat Outlet components.

10. Warranty and Support

MOES products are designed and manufactured to the highest quality standards. This product is covered by a standard manufacturer's warranty against defects in materials and workmanship from the date of purchase. Please refer to the specific warranty terms provided at the time of purchase or contact MOES customer support for detailed information.

For technical support, troubleshooting assistance, or warranty claims, please contact MOES customer service through the official website or the contact information provided with your purchase. When contacting support, please have your product model number (WTP-YC-US2-BK-MS) and proof of purchase readily available.

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