

## MOES B0DNDZ2LHH

# MOES Smart WiFi Electric Underfloor Heating Thermostat User Manual

Model: B0DNDZ2LHH

## 1. PRODUCT OVERVIEW

The MOES Smart WiFi Electric Underfloor Heating Thermostat provides intelligent temperature control for your room, enhancing your smart home experience with comfort and energy efficiency. This programmable thermostat is compatible with popular smart home platforms like Alexa and Google Home, and can be managed via the Tuya/Smart Life app.

### Key Features:

- **Intelligent Heating System:** Offers smart temperature control and provides weather data for a comfortable smart home experience.
- **Remote APP Control:** Manage home temperature with the Tuya/Smart Life app (requires 2.4 GHz Wi-Fi). Adjust settings anytime, anywhere, create schedules, set smart scenarios, or share device control with family.
- **User-Friendly Design:** Connects with voice assistants like Alexa or Google Home for voice commands. Displays weather information (sun, rain). Blackout protection saves all settings. Screen lock prevents accidental changes.
- **Energy Saving Thermostat:** Supports automatic or manual temperature adjustment with flexible weekly programming (5+2, 6+1, or 7 days). Up to 6 daily heating periods for comfort and energy efficiency. Integrates with Wi-Fi door/window sensors to detect sudden temperature drops (e.g., open window) and automatically pauses heating to prevent waste.

### Important Notes:

- Requires 2.4 GHz Wi-Fi (5 GHz not supported).
- A neutral wire is required for installation.
- This is a wall-mounted thermostat for 16A electric underfloor heating systems.

## 2. INSTALLATION

### 2.1. Product Components

The thermostat package includes the main thermostat unit, a backplate for wall mounting, and an external floor sensor (if applicable to your model).



Figure 1: Front view of the MOES Smart WiFi Electric Underfloor Heating Thermostat.

# Dimensione

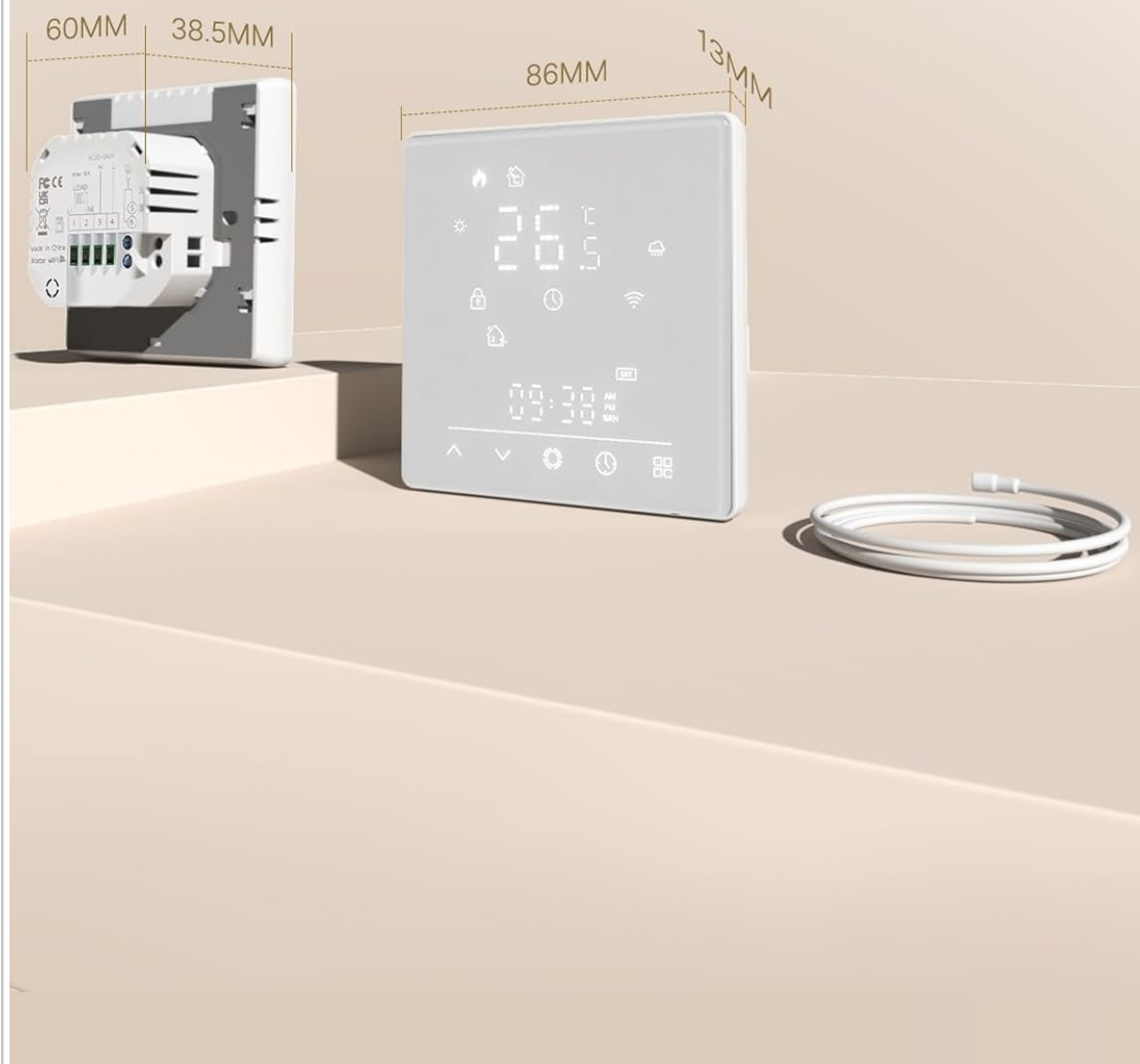


Figure 2: Dimensions of the MOES Smart WiFi Electric Underfloor Heating Thermostat, showing 86mm width, 86mm height, and 13mm depth from the wall surface, with a 60mm x 38.5mm backplate.

## 2.2. Wiring Diagram

Ensure power is off before wiring. Connect the thermostat according to the diagram below for electric underfloor heating systems. A neutral wire (N) and live wire (L) are required. The load (electric floor heating element) connects to L1 and L2. An external sensor (NTC) can be connected to terminals 5 and 6.

## Visualizzazione del meteo

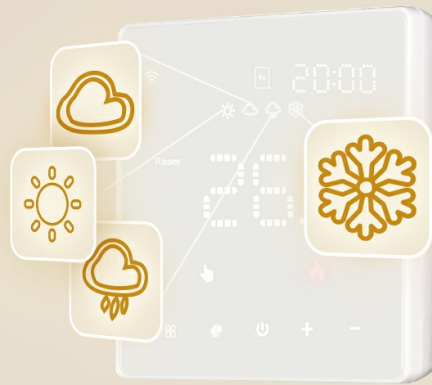
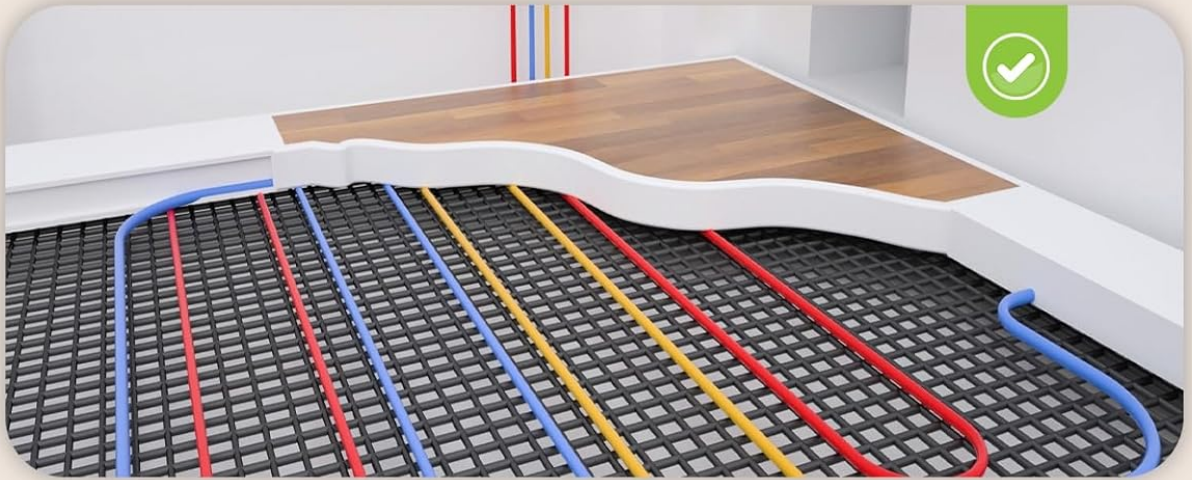


Figure 3: Wiring diagram for the electric underfloor heating thermostat. Connect Live (L) and Neutral (N) power supply, and the electric floor load (L1, L2). Optional NTC sensor connects to terminals 5 and 6.

**Compatibility Note:** This thermostat is designed specifically for electric underfloor heating systems. It is not compatible with water-based underfloor heating or boiler systems.



Solo sistema di riscaldamento a pavimento elettrico.



Non compatibile con riscaldamento a pavimento ad acqua o sistemi di caldaie.

Figure 4: Visual representation of thermostat compatibility, indicating it is suitable only for electric underfloor heating and not for water-based or boiler systems.

## 2.3. Mounting the Thermostat

1. Carefully separate the front panel from the backplate using a suitable tool to release the bottom clips.
2. Secure the backplate to the wall or a standard 503 recessed box using two screws.
3. Snap the top tabs of the front panel into the fixing clips and gently press to lock it into position.

## 3. OPERATING INSTRUCTIONS

### 3.1. Manual Control



The thermostat can be operated directly using the touch buttons on the device. Use the up and down arrows to adjust the temperature. The 'M' button cycles through modes, and the power button turns the unit on/off.

### 3.2. App Control (Tuya/Smart Life)

Download the Tuya Smart or Smart Life app from your smartphone's app store. Follow the in-app instructions to pair your thermostat. Ensure your phone is connected to a 2.4 GHz Wi-Fi network during the pairing process.



Figure 5: Remote control of the thermostat using the Tuya/Smart Life app on a smartphone.

Once paired, you can adjust the temperature, set schedules, and manage other settings directly from the

app.

### 3.3. Voice Control (Alexa/Google Home)

Integrate your MOES thermostat with Amazon Alexa or Google Home for convenient voice control. Link the Tuya/Smart Life skill/service in your Alexa or Google Home app. You can then use commands such as "Alexa, set the thermostat to 22 degrees" or "Hey Google, turn on the heating."

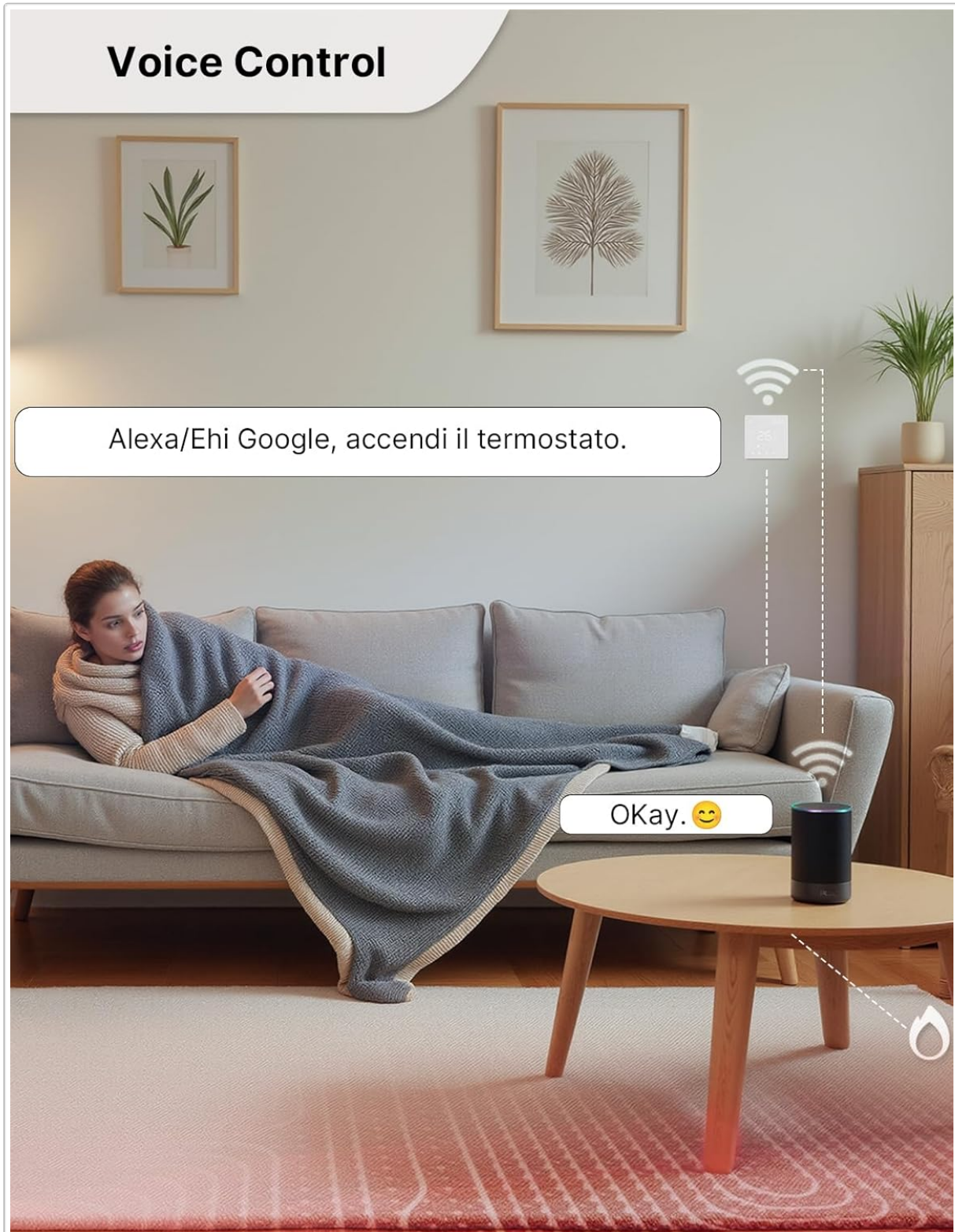
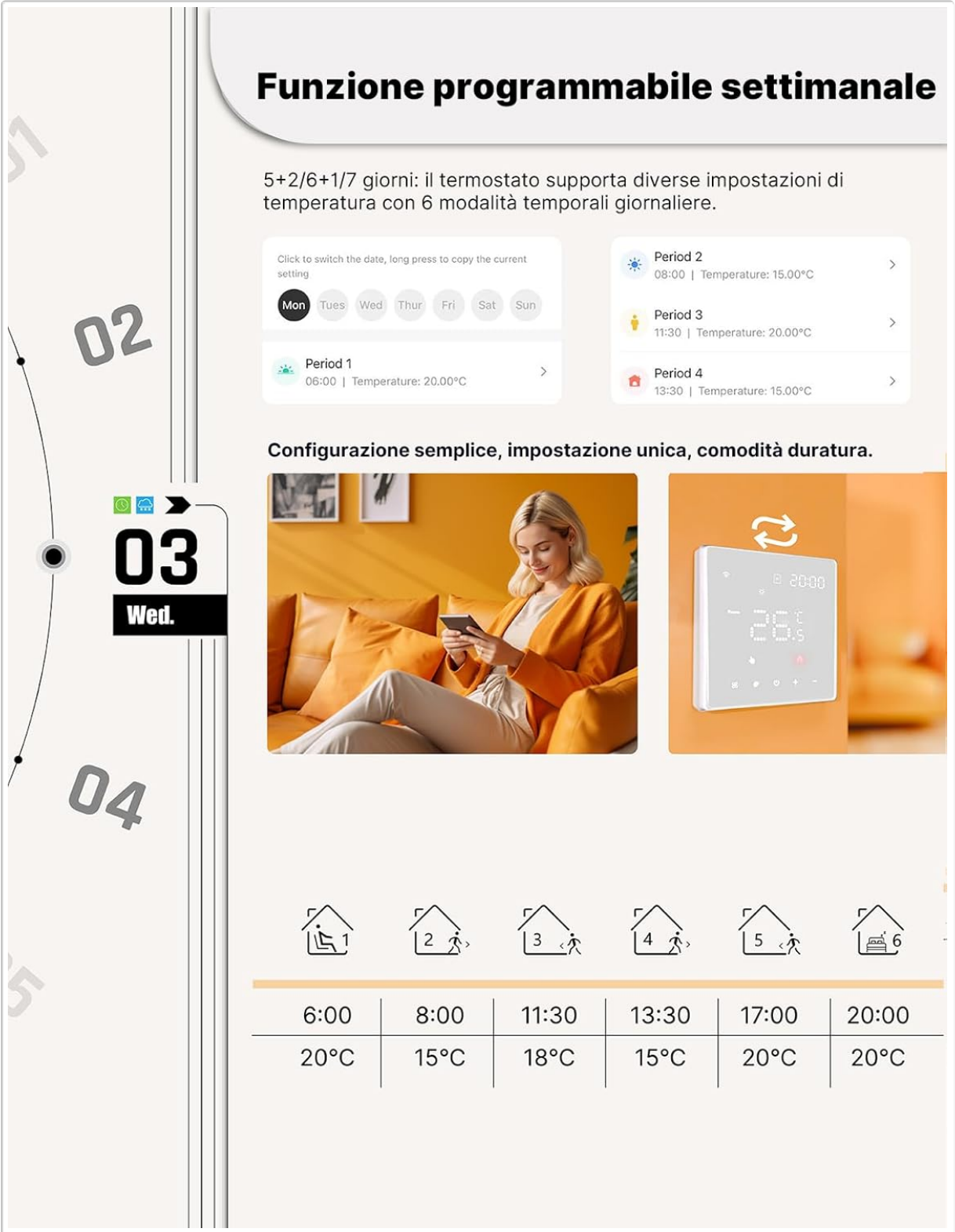


Figure 6: A user interacting with a voice assistant (Alexa or Google Home) to control the thermostat.

### 3.4. Weekly Programming

The thermostat supports flexible weekly programming with options for 5+2, 6+1, or 7-day schedules. You can set up to 6 distinct heating periods per day to optimize comfort and energy usage. This feature can be

configured via the app.





## Funzione di blocco per bambini



Figure 8: Illustration of the child lock feature, showing a child's hand near the thermostat with a lock icon, indicating prevention of accidental adjustments.

### 3.6. Anti-freeze Function

The anti-freeze function helps protect your pipes from freezing by maintaining a minimum temperature. This feature can be configured in the thermostat settings via the app.

### 3.7. ECO Mode

Utilize the ECO mode to save energy and reduce electricity bills. This mode optimizes heating performance for efficiency.



Figure 9: Visual demonstrating the ECO mode, highlighting potential energy savings of up to 20% on electricity bills.

### 3.8. Temperature Calibration

If you notice a discrepancy between the thermostat's temperature reading and another reliable thermometer, you can calibrate the temperature. The compensation range allows for adjustments to ensure accurate readings.



Figure 10: Image illustrating the temperature calibration feature, showing a range of compensation from -9°C to +9°C.

### 3.9. Open Window Detection

When paired with compatible Wi-Fi door/window sensors, the thermostat can detect sudden drops in temperature caused by an open window. It will then automatically pause heating to prevent energy waste.

## 4. SPECIFICATIONS

Feature	Specification
Brand	MOES
Color	White
Dimensions	10.3 x 9.6 x 6.6 cm
Weight	270 grams
Special Features	APP remote control and smart home system compatibility
Controller Type	Manual Control, Amazon Alexa, Google Assistant, Smart Life, Tuya
Temperature Control Type	Programmable
Connectivity	Wi-Fi 2.4 GHz (5 GHz not supported), MOES ZigBee Hub Required (for ZigBee variant, though this product is WiFi)

*Note: The product description mentions both Wi-Fi and ZigBee hub requirement. This manual focuses on the Wi-Fi functionality as indicated by the product title. Please refer to the specific product packaging for exact model and connectivity details.*

## 5. MAINTENANCE

To ensure optimal performance and longevity of your MOES Smart WiFi Electric Underfloor Heating Thermostat, follow these simple maintenance guidelines:

- **Cleaning:** Gently wipe the thermostat screen and casing with a soft, dry cloth. Avoid using abrasive cleaners, solvents, or chemical sprays, as these can damage the surface and internal components.
- **Power Supply:** Ensure a stable power supply. In case of a power outage, the thermostat's blackout protection feature will save your settings.
- **Software Updates:** Regularly check the Tuya/Smart Life app for any available firmware updates for your thermostat. Keeping the software updated ensures you have the latest features and security enhancements.
- **Environmental Conditions:** Avoid exposing the thermostat to extreme temperatures, high humidity, or direct sunlight for prolonged periods.

## 6. TROUBLESHOOTING

If you encounter issues with your MOES Smart WiFi Electric Underfloor Heating Thermostat, please refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Thermostat not turning on	No power supply; incorrect wiring.	Check the main power switch. Verify wiring connections (Live, Neutral, Load) as per the installation diagram. Consult a qualified electrician if unsure.

Cannot connect to Wi-Fi/App	Incorrect Wi-Fi password; 5 GHz Wi-Fi network; thermostat too far from router; pairing mode not activated.	Ensure you are using a 2.4 GHz Wi-Fi network. Double-check the Wi-Fi password. Move the thermostat closer to the router. Activate pairing mode on the thermostat as per app instructions. Restart your router and try again.
Temperature reading inaccurate	Thermostat sensor calibration needed.	Access the temperature calibration settings in the app and adjust the compensation value as needed.
Heating not working	Thermostat in OFF mode; set temperature lower than current room temperature; programming schedule active; open window detected.	Ensure the thermostat is ON and in heating mode. Set the desired temperature higher than the current room temperature. Check your weekly programming schedule. Close any open windows or disable the open window detection feature temporarily.
Voice control not responding	Incorrect voice command; Alexa/Google Home not linked to Tuya/Smart Life; internet connectivity issue.	Use precise voice commands. Ensure the Tuya/Smart Life skill/service is enabled and linked in your Alexa/Google Home app. Check your internet connection.

If the problem persists after trying these steps, please contact MOES customer support for further assistance.

## 7. WARRANTY AND SUPPORT

MOES products are designed and manufactured to the highest quality standards. For information regarding warranty coverage, terms, and conditions, please refer to the warranty card included with your product or visit the official MOES website.

For technical support, troubleshooting assistance, or any product-related inquiries, please contact MOES customer service through the following channels:

- **Online Support:** Visit the [MOES Store on Amazon](#) for FAQs and contact options.
- **Email:** Refer to your product packaging or the official website for the customer support email address.
- **App Support:** Many common issues can be resolved through the help sections within the Tuya Smart or Smart Life applications.

Please have your product model number (B0DNDZ2LHH) and purchase date ready when contacting support.