Hilitand K2MRH3A

Hilitand K2MRH3A Smart Thermostat User Manual

AC 90-240V Digital Display Constant Temperature Controller for Floor Heating Boiler

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Hilitand K2MRH3A Smart Thermostat. This device is designed to provide precise temperature control for floor heating and boiler systems, ensuring comfort and energy efficiency. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. SAFETY INFORMATION

- Installation must be performed by a qualified electrician in accordance with local electrical codes.

- Always disconnect power at the circuit breaker before installing or servicing the thermostat.

- Do not expose the thermostat to water or excessive humidity.

- Ensure all wiring connections are secure to prevent electrical hazards.

- This thermostat is designed for AC 90-240V systems. Verify your system's voltage before installation.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Hilitand K2MRH3A Smart Thermostat

- 1 x User Manual (this document)

- 2 x Mounting Screws

4. SPECIFICATIONS

Feature	Specification
Item Type	Thermostat
Color	White
Grade	IP20
Shell Material	Flame Retardant PC
Temperature Sensor	Negative Temperature Coefficient (NTC)
Temperature Accuracy	±1°C
Display	LCD
Working Environment	-5-50°C
Power Consumption	<1W
Temperature Setting Range	5-60°C
Display Range	0-50°C
Maximum Load	3A
Maximum Power	3500W
Control Methods	Intelligent timing, Touch control, Programming period control
Voltage	90-240V AC
Special Feature	Temperature Display

5. SETUP AND INSTALLATION

5.1 Mounting the Thermostat

The thermostat is designed for wall mounting. Ensure the installation location is away from direct sunlight, drafts, or heat sources that could affect temperature readings.

1. Turn off the main power supply to your heating system at the circuit breaker.

2. Carefully remove the front panel of the thermostat to access the wiring terminals.

3. Mount the backplate of the thermostat to the wall using the provided screws. Ensure it is level.

5.2 Wiring Connections

Connect the electrical wires to the appropriate terminals on the thermostat's backplate. Refer to the wiring diagram provided with your heating system and the thermostat's internal labels. Ensure all connections are secure.

Image: Back view of the Hilitand K2MRH3A Smart Thermostat, illustrating the wiring terminal block for electrical connections.

5.3 Initial Power-On

1. Once wiring is complete and secure, reattach the front panel of the thermostat.

2. Restore power to your heating system at the circuit breaker.

3. The thermostat display should illuminate, indicating it is powered on. Follow on-screen prompts for initial setup if any.

6. OPERATING INSTRUCTIONS

6.1 Display Overview

Image: A close-up view of the thermostat's LCD screen, displaying the current room temperature (17.5°C), set temperature (23°C), time (17:22), and various mode indicators.

The LCD displays current room temperature, set temperature, time, and various operational icons. The display range is 0-50°C.

6.2 Touch Control

The thermostat features a touch-sensitive interface for easy operation.

Image: A hand interacting with the thermostat's touch screen, demonstrating how to adjust the temperature or settings.

- **Power Button (U):** Press to turn the thermostat on or off.
- **Mode Button (M):** Press to cycle through different operating modes (e.g., manual, automatic, programming).
- **Up/Down Arrows (^ / v):** Use to adjust the set temperature or navigate menu options. The temperature setting range is 5-60°C.
- **Clock Button (L):** Access time and programming settings.

6.3 Intelligent Timing and Programming

The thermostat supports intelligent timing and programming period control to optimize heating schedules. Refer to the detailed programming section in the full user manual for specific steps on setting daily or weekly schedules.

6.4 Voice Control Compatibility

The Hilitand K2MRH3A Smart Thermostat is compatible with popular voice assistant devices, allowing for convenient voice-activated temperature adjustments.

Image: The Hilitand K2MRH3A Smart Thermostat positioned next to various voice control devices, illustrating its compatibility with smart home ecosystems for hands-free operation.

To enable voice control, link your thermostat through the respective voice assistant application. Follow the instructions provided by your voice assistant's manufacturer for device pairing.

6.5 Remote Control via Tuya APP

Manage your thermostat remotely using the Tuya Smart application on your smartphone. This feature allows you to adjust settings, monitor temperature, and manage schedules from anywhere.

Image: The Hilitand K2MRH3A Smart Thermostat shown next to a smartphone, demonstrating the use of the Tuya APP for remote temperature control and scheduling.

1. Download the Tuya Smart app from your device's app store.

2. Register or log in to your Tuya account.

3. Add the thermostat as a new device within the app, following the on-screen instructions.

4. Once paired, you can control the thermostat remotely.

7. MAINTENANCE

- Clean the thermostat's display and casing with a soft, dry cloth. Do not use abrasive cleaners or solvents.

- Ensure the thermostat's vents (if any) are free from dust and obstructions to maintain accurate temperature sensing.

- No user-serviceable parts are inside. Do not attempt to open or repair the unit yourself.

8. TROUBLESHOOTING

If you encounter issues with your thermostat, refer to the following common problems and solutions:

- **Thermostat not powering on:** Check the circuit breaker and ensure all wiring connections are secure.
- **Incorrect temperature reading:** Ensure the thermostat is not exposed to direct sunlight, drafts, or heat sources.
- **Heating system not responding:** Verify the thermostat is in the correct operating mode and the set temperature is above the current room temperature. Check your heating system's power supply.
- **Remote control not working:** Ensure your thermostat is properly connected to your Wi-Fi network and paired with the Tuya Smart app. Check your internet connection.

For persistent issues, contact customer support.

9. WARRANTY AND SUPPORT

9.1 Warranty Information

Hilitand products are manufactured to high-quality standards. This product comes with a standard manufacturer's warranty against defects in materials and workmanship. Please retain your proof of purchase for warranty claims. Specific warranty terms and duration may vary by region; refer to your purchase documentation for details.

9.2 Customer Support

If you have any questions, require technical assistance, or need to make a warranty claim, please contact Hilitand customer support through the retailer where the product was purchased or visit the official Hilitand website for contact information.