

## MOES BHT-002-GCLWW

# MOES Smart Thermostat WiFi Instruction Manual

Model: BHT-002-GCLWW (For Boiler Heating Systems)

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your MOES Smart Thermostat WiFi, Model BHT-002-GCLWW. This thermostat is designed to control water and gas boiler heating systems, offering both manual and smart control options via a smartphone application and voice assistants. Please read this manual thoroughly before installation and use to ensure proper function and safety.

## 2. PRODUCT OVERVIEW

The MOES Smart Thermostat WiFi provides precise temperature control and energy-saving programming for your home heating system. Key features include:

- **Dual Control Modes:** Supports fully automatic programming or manual operation.
- **Wide Compatibility:** Suitable for most water heating systems and gas boilers (95-240V, 50/60 Hz, 5A max current).
- **Remote Control:** Manage your heating system from anywhere using the Smart Life/Tuya smartphone application.
- **Voice Assistant Integration:** Compatible with Amazon Alexa and Google Home for convenient voice control.
- **Programmable Schedules:** Features 5+1+1 (weekday/Saturday/Sunday) programming with seven periods to optimize comfort and energy efficiency.
- **Multifunctionality:** Includes power-off protection, date memory, and language synchronization.
- **High Accuracy:** Temperature precision of 0.5°C with an adjustable range of 5-35°C.
- **User-Friendly Interface:** LCD screen with touch buttons for easy readability and operation.

## 3. SAFETY INFORMATION

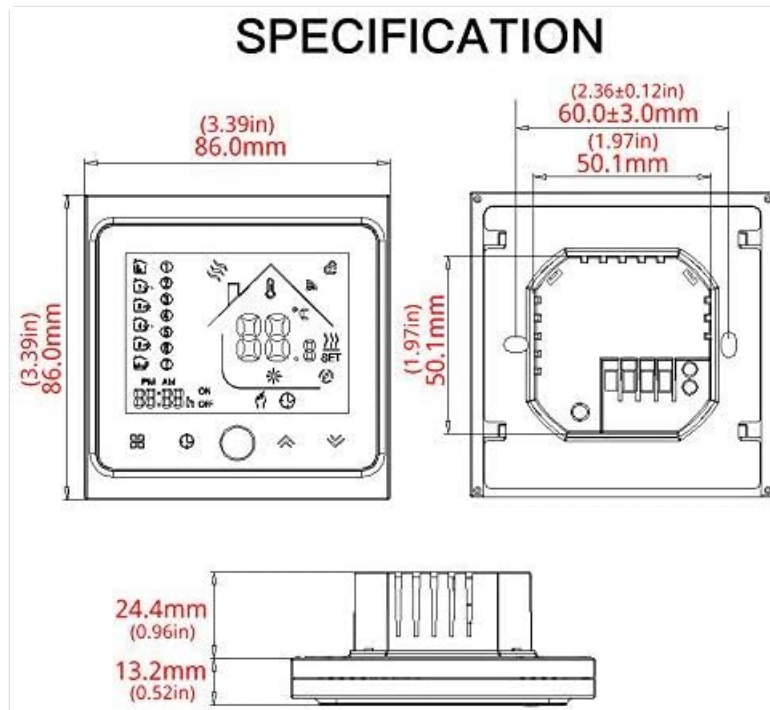
- Always disconnect power to the heating system at the circuit breaker before installation or maintenance.

- Installation should be performed by a qualified electrician or heating technician.
- Ensure the thermostat is compatible with your heating system's voltage and current requirements.
- This device requires a neutral wire for operation.
- Only use the thermostat with 2.4GHz Wi-Fi networks; 5GHz networks are not supported.
- Do not expose the thermostat to water or excessive humidity.

## 4. SETUP

### 4.1. Physical Installation

The thermostat is designed for in-wall installation. Ensure you have a standard electrical box for mounting. Refer to the wiring diagram for correct connections.



**Image 1:** Wiring diagram for the MOES Smart Thermostat (GC model) for gas/water boilers. Terminals 1 and 2 connect to the dry contact of the boiler. Terminals 3 and 4 are for AC 95-240V power (L for Live, N for Neutral). Terminals 5 and 6 are for an optional NTC external sensor. If your boiler has more than three wires, consult a professional.

# Attention

## || GC: Gas Boiler



Only 2.4GHz WiFi, Not 5GHz



Neutral Wire Required



Install without Power



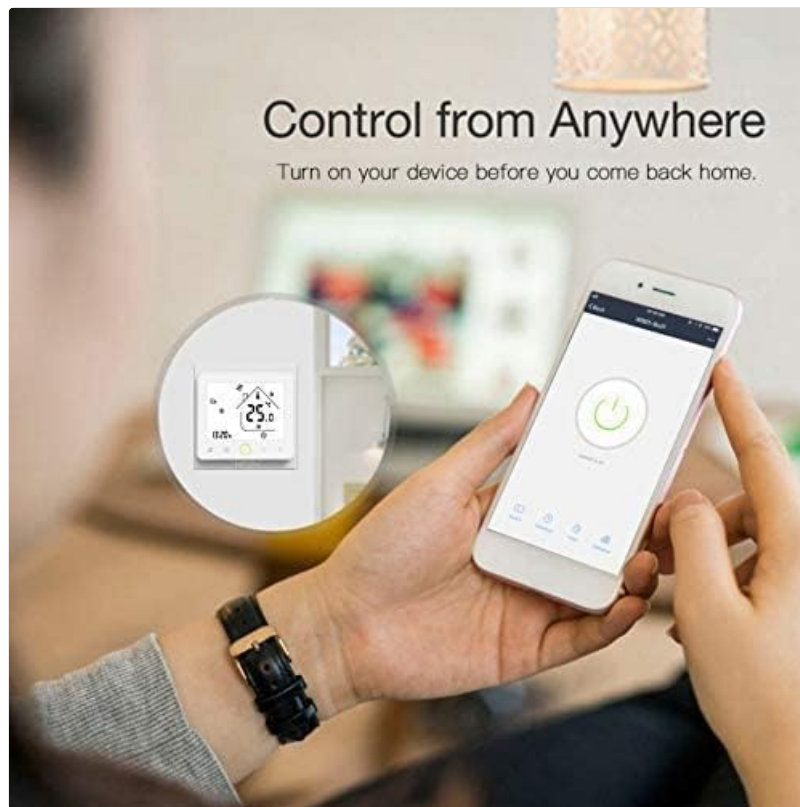
Control Gas Water Boiler

**Note:** Any questions please contact us.

**Image 2:** Technical drawing showing the dimensions of the MOES Smart Thermostat. The front panel measures 86.0mm x 86.0mm (3.39in x 3.39in). The recessed part measures 60.0mm x 50.1mm (2.36in x 1.97in) with a depth of 24.4mm (0.96in) from the wall surface.

## 4.2. Important Installation Notes

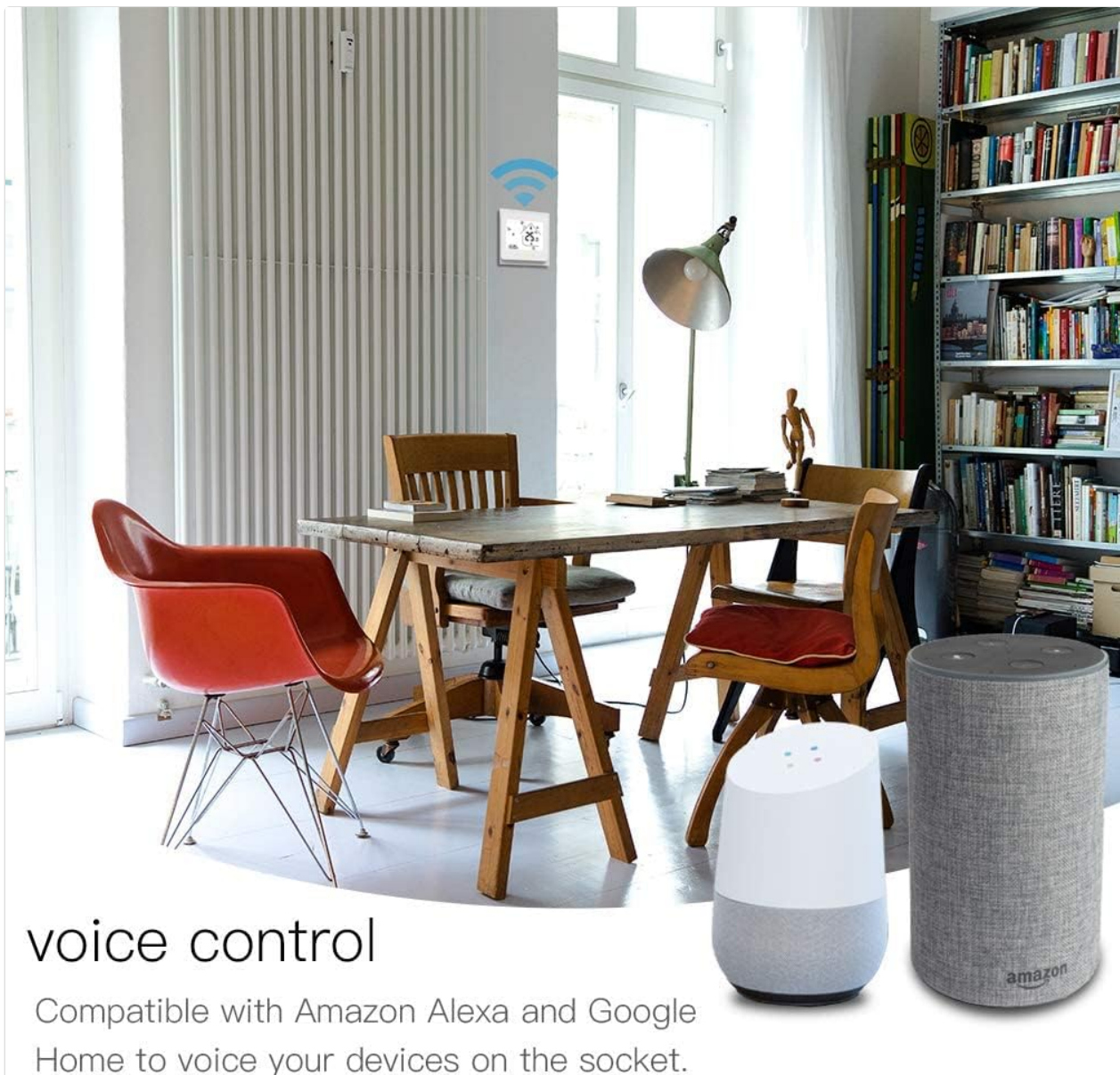
- The thermostat operates only on **2.4GHz Wi-Fi**. It is not compatible with 5GHz networks.
- A **Neutral Wire** is required for proper operation.
- Always **install without power** to prevent electrical shock.
- This specific model (GC) is designed to **control Gas/Water Boilers**.



**Image 3:** Visual representation of important installation notes: 2.4GHz Wi-Fi only, Neutral wire required, install without power, and designed for Gas/Water Boiler control.

### 4.3. Wi-Fi and App Setup

To connect your thermostat to your smartphone, download the 'Smart Life' or 'Tuya Smart' application from your device's app store. Follow the in-app instructions to add your device. Ensure your phone is connected to a 2.4GHz Wi-Fi network during the pairing process.



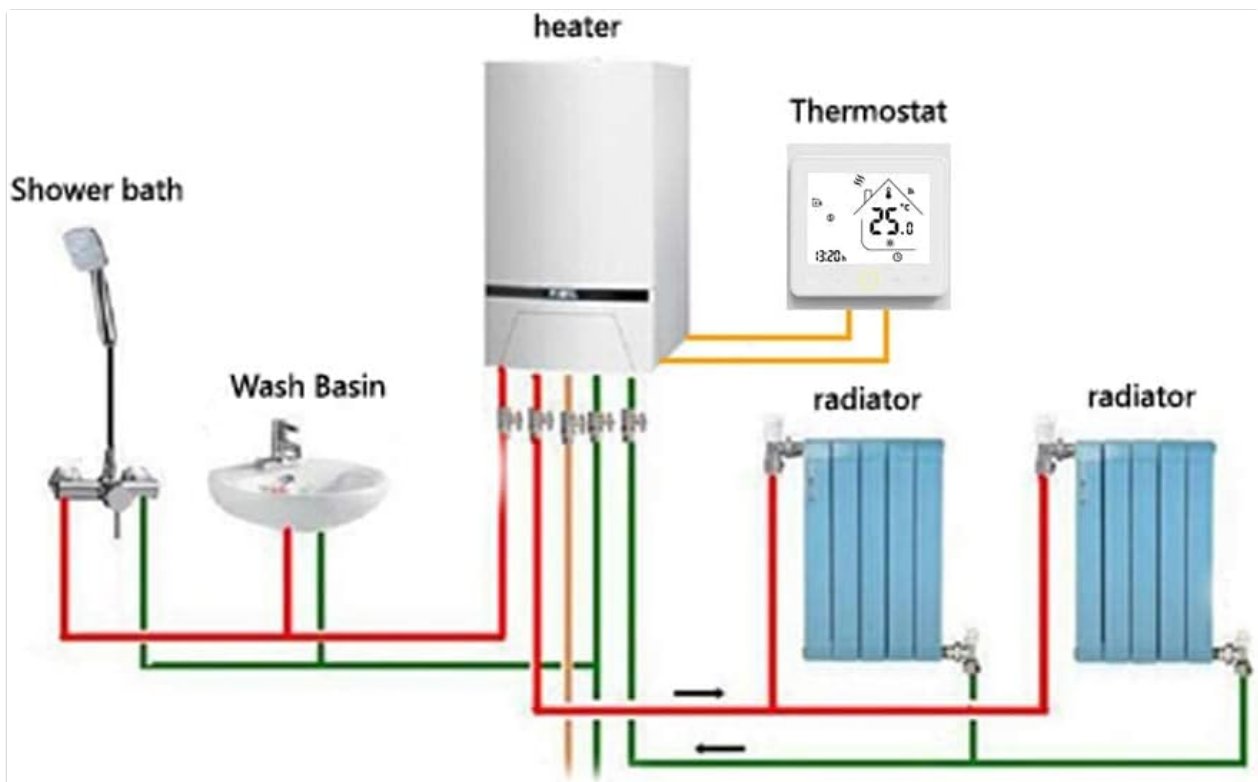
## voice control

Compatible with Amazon Alexa and Google Home to voice your devices on the socket.

**Image 4:** A smartphone displaying the control interface for the MOES Smart Thermostat, demonstrating remote control capabilities. The thermostat is visible in the background, showing a temperature of 25.0°C.

### 4.4. Voice Assistant Integration

Once connected to the Smart Life/Tuya app, you can link your thermostat to Amazon Alexa or Google Home for voice control. Refer to the respective voice assistant's app for instructions on connecting third-party smart devices.



**Image 5:** The MOES Smart Thermostat integrated with Amazon Alexa and Google Home devices, illustrating its voice control capabilities within a home environment.

## 5. OPERATING INSTRUCTIONS

### 5.1. Manual Control

You can adjust the temperature directly on the thermostat's touch screen. Use the up and down arrows to set your desired temperature. The current room temperature and set temperature will be displayed.



**Image 6:** The MOES Smart Thermostat display showing a set temperature of 25.0°C, current time 13:20, and various icons indicating heating status, Wi-Fi connectivity, and mode.

## 5.2. Programmable Modes

The thermostat supports 5+1+1 (weekday/Saturday/Sunday) programming with up to seven periods per day. This allows you to set different temperatures for various times of the day and week, optimizing comfort and energy savings.

- Access the programming settings via the thermostat's menu or the Smart Life/Tuya app.
- Set desired start times and temperatures for each period.
- The thermostat will automatically follow the programmed schedule.



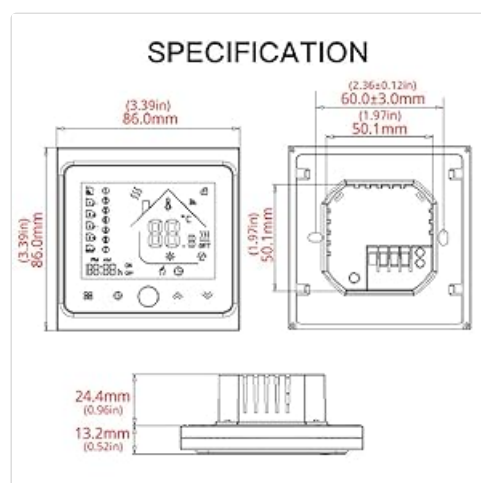


Share your devices to anyone you want, control the devices together. Have more fun and convenience to lead a smart life with family.

**Image 7:** A smartphone screen displaying the programmable schedule interface for the MOES Smart Thermostat, showing time slots (e.g., 6:00-8:00, 11:00-12:00) and toggle switches for activation.

### 5.3. Device Sharing

You can share control of your MOES Smart Thermostat with family members or other authorized users through the Smart Life/Tuya application. This allows multiple individuals to manage the heating system from their own devices.





**Image 8:** Two individuals interacting with smartphones, illustrating the device sharing feature of the MOES Smart Thermostat, allowing multiple users to control the device.

## 6. MAINTENANCE

The MOES Smart Thermostat requires minimal maintenance. Follow these guidelines:

- Clean the screen and exterior 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 allow for accurate temperature readings.
- Periodically check the wiring connections to ensure they are secure.

## 7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Thermostat is offline/cannot connect to Wi-Fi	Incorrect Wi-Fi frequency (5GHz), weak signal, incorrect password, router issues.	Ensure your router is broadcasting a 2.4GHz signal. Move the thermostat closer to the router. Verify Wi-Fi password. Restart your router and the thermostat. Re-pair the device in the app.
Thermostat loses time/program after power cut	Internal clock reset due to power interruption.	The thermostat should ideally retain settings. If it consistently resets, ensure stable power supply. Re-synchronize time via the app. If the issue persists, contact support.
Inaccurate temperature readings	Thermostat placed near heat sources/drafts, sensor obstruction.	Relocate the thermostat away from direct sunlight, drafts, or heat-emitting appliances. Ensure no objects are blocking the internal sensor.
Heating system not responding	Wiring error, boiler malfunction, thermostat in incorrect mode.	Check wiring according to the diagram. Ensure the boiler is functioning correctly. Verify the thermostat is in heating mode and the set temperature is above the ambient temperature.

## 8. SPECIFICATIONS





Feature	Specification
Model Number	BHT-002-GCLWW
Power Source	Wired Electric (AC 95-240V, 50/60Hz)
Current Load	5A (Max)
Connectivity Technology	Wi-Fi (2.4GHz only)
Temperature Control Type	Heating

Feature	Specification
Product Dimensions (L x W x H)	8.6 x 8.6 x 3.8 cm
Item Weight	220 Grams
Special Feature	Programmable
Controller Type	Amazon Alexa, Google Home
Temperature Accuracy	0.5°C
Adjustable Temperature Range	5°C to 35°C
Color	White

## 9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or visit the official MOES website. You can also contact MOES customer service through the contact details provided on their website or within the Smart Life/Tuya application.

### Related Documents - BHT-002-GCLWW

	<a href="#">MOES BHT-002 Series WiFi Thermostat User Guide for Boiler and Electric Heating</a> Comprehensive user guide for the MOES BHT-002 Series WiFi Thermostat. Learn about installation, operation, programming, and smart home integration with Alexa and Google Home for water heating, boilers, and electric heating systems.
	<a href="#">Moes BHT-006 Series Smart Thermostat User Manual and Installation Guide</a> Comprehensive guide for the Moes BHT-006 Series Smart Thermostat, covering installation, operation, features, technical specifications, and app connectivity for water heating, electric floor heating, and gas/water boiler systems.
	<a href="#">BHT-006 Series Wi-Fi Thermostat User Manual and Technical Specifications</a> Comprehensive guide for the BHT-006 series Wi-Fi thermostats, covering installation, operation, technical data, and features for water heating, boiler, and electric heating systems by MOES.
	<a href="#">MOES BHT-002 WiFi Thermostat User Guide for Smart Home Heating Control</a> Comprehensive user guide for the MOES BHT-002 Series WiFi Thermostat, covering installation, operation, programming, and advanced settings for smart home heating control. Features include 0.5°C accuracy, 5+2 programmable periods, and integration with voice assistants like Amazon Echo and Google Home.



[BHT-3000 Series Smart WiFi Thermostat User Guide | MOES](#)

Comprehensive user guide for the MOES BHT-3000 Series Smart WiFi Thermostat. Learn about features, installation, wiring, operation, programming, and WiFi connectivity for heating control systems.

[MOES 002 Series Wi-Fi Thermostat: User Guide and Installation](#)

Comprehensive guide for the MOES 002 Series Wi-Fi Thermostat, covering installation, operation, features, and app setup for smart home temperature control.