MOES

BHT-002 Series WiFi Thermostat
User Guide

For Water Heating/Boiler/Electric Heating

For other languages, please scan the following QR code

Le français   Español   lingua italiana

Thermostat Colors:

002FB: full black   002BW: black and white
002FW: full white   002WB: white and black

Welcome

Thank you for your purchase.
Your new thermostat will provide uniform and comfortable temperature control throughout every room in your property. We bring together technology, craftsmanship and the highest quality materials to provide you with a safe, reliable product combined with sleek, contemporary design.
Please read this installation/programming manual for comprehensive instructions on installing and operating your thermostat. Please also ensure a suitably qualified person installs your thermostat and complies with all local regulations.

In the box you will find

Thermostat	1pc	Screws	2pc
User Guide	1pc	Floor Sensor (2.5m)	1pc
QC Passed	1pc	(Floor sensor is Optional)	

ABOUT YOUR THERMOSTATS

The BHT-002 series range has been developed to control electric underfloor, water heating or water/gas boiler systems. These units are designed for use in commercial, industrial, civil and domestic properties

MODEL DEFINITION

GA: Water heating, 5A   GC: Water/Gas Boiler, 5A
GB: Electric floor Heating, 16A
L: Backlight
P: Weekly Programmable
W: Wifi
N: Modbus Communication
B: BACnet Communication
S2: Both internal sensor and floor external sensor
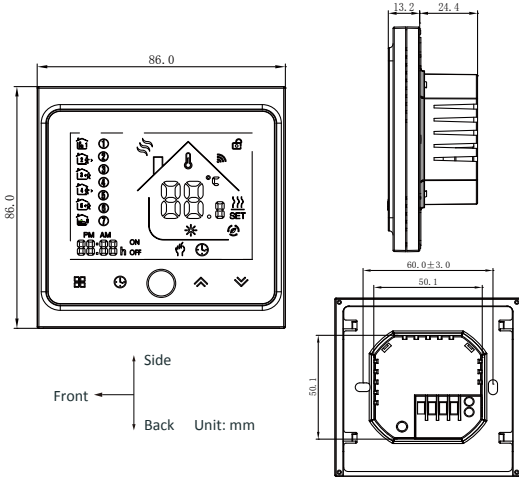*For example: BHT-002 GCLP*

FEATURES

On Appearance
1.Convennient operation creates convenient life.
2.Options of black and white housing.
3.Fashion design blends in with any decor.
4.Touch Screen display with backlight is easy to read ,even in the dark.
5.Bright buttons always remind you the world truely exist.
6.Easy UI interface could be used even by child.

On Functionality
1. Powerful functions are available such as Modbus/WIFI etc,
2. 0.5°C Accuracy keeps temperature within the level you set.
3. Data memory when power is off.
4. 5+2 six periods programmable maximize comfort and economy.
5. Create thermostat group to Centralized control
6. Integrated with Amazon Echo,Google Home,Tmall Genie,IFTTT.
7. All setting languages synchronize your time zone, address and language.
8. No limit to add rooms and support Smart Scene.

DIMENSION

Side
Front
Back   Unit: mm

TECHNICAL DATA

Power Supply: 95 ~ 240 VAC, 50 ~ 60HZ
Current Load: 5A（water heating/water boiler/gas boiler）
                16A (electric heating)
Sensor: NTC
Accuracy: ±0.5℃ or ±1℉
Set Temp. Range: 5 -35℃
Dispaly Temp. Range: 5 ~ 99 ℃
Ambient Temp.: 0 ~ 45 ℃
Ambient Humidity: 5 ~ 95 % RH (Non Condensing)
Storage Temp.: -5 ~ 45 ℃
Power Consumption: <1.5W
Timing Error: < 1%
Shell Material: PC +ABS (flame retardant)
Installation Box: 86 * 86mm Square or European 60mm Round Box
Wire Terminals: Wire 2 x 1.5 mm2 or 1 x 2.5 mm2
Protection Class: IP 20
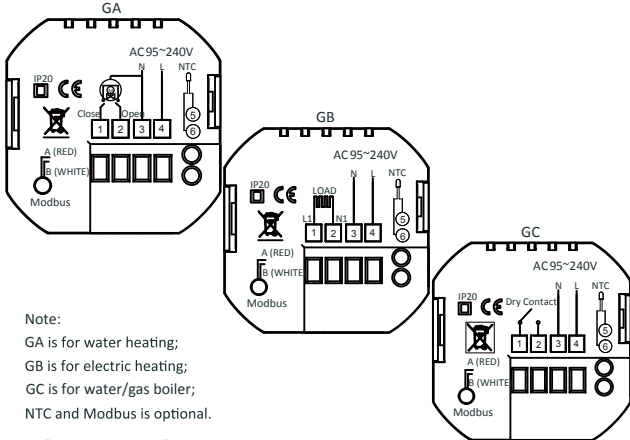Buttons: Capactive Touch Buttons

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BEFORE WIRING AND INSTALLING...

1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Check the ratings given in the instructions and on the product to make sure the product is suitable for your application.
3. Installer must be a trained, experienced service technician.
4. After installation is complete, check out product operation as provided in these instructions.

⚠ **CAUTION**

Electrical Shock or Equipment Damage Hazard. Can shock individuals or short equipment circuitry.
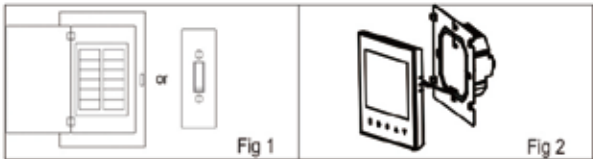**Disconnect power supply before installation.**

WIRING

Note:
GA is for water heating;
GB is for electric heating;
GC is for water/gas boiler;
NTC and Modbus is optional.

INSTALLATION

Your thermostat is suitable for installation within a standard 86mm pattress box or European 60mm pattress box.
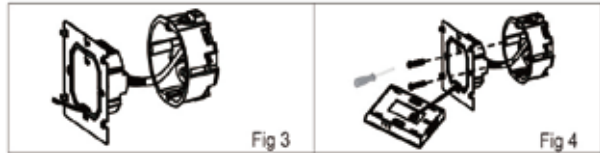
Step 1. Keep power off. See Fig 1.
Step 2. Remove the mounting Plate by rotating the LCD part. See Fig 2.

Fig 1   Fig 2

Step 3. Connect power supply, load into the appropriate terminals. (see "Wiring your thermostat" for details and Fig 3).
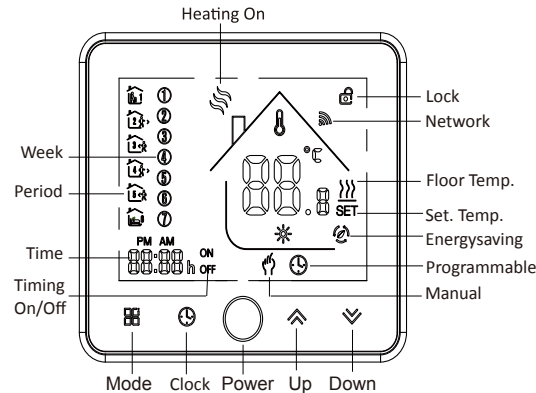Step 4. Fix the mounting plate into the wall with screws in the box. See Fig 4.

Fig 3   Fig 4

Step 5. Fasten body of thermostat and the mounting plate through rotating. See Fig 5.

Step 6. Installation complete. See Fig 6.

Fig 5   Fig 6

HOME SCREEN QUICK REFERENCE

Heating On
Week
Period
Time
Timing On/Off
Lock
Network
Floor Temp.
Set. Temp.
Energysaving
Programmable
Manual
Mode   Clock Power Up   Down

OPERATION

During Power On

1. Power On/off: Press ⭕ to turn the thermostat on/off.

2. Manual & Programmable

Touch ⊞ (mode) to change between manual mode and programme mode. In the manual mode, 👆 will display in the bottom of the screen In programmable mode, the period icon 🗓 will show in the left side.

3. Setting Temperature

In the mode of programmable, set temperature, time could not be adjusted. If the user want to change, please go to manual mode or programmable mode.
In the mode of manual, press ⌃ ⌄ to set the desired temperature.

4. Adjusting/Setting the Clock

Touch the icon 🕐 to set minute, hour and weekday (1 = Monday, 2 = Tuesday etc.) by using the ⌃ ⌄ arrows. Press 🕐 once more to confirm and exit.

5. Locking your Thermostat

Press and hold the ⌃ ⌄ for 5 seconds to lock/unlock your thermostat In item 3 of high senior options, you can select full lock or half lock.

6. Adjusting/setting the Program Schedules

When Wi-Fi connection is made, your thermostat will automatically accept the program schedule made via the APP on your device (see below for detailed instructions) To set the program schedules through your thermostat (NOT via your smartphone/tablet) simply follow the instructions as below:

Please note: Setting the programme schedule through your thermostat can only be carried out if there is no Wi-Fi connection between your thermostat and smartphone/tablet.

Touch ⊞ to change between manual mode and programme mode. In the manual mode, 👆 will display in the bottom of the screen
In programme mode, touch and hold the icon 🕐 until the weekday schedule settings appear (1 2 3 4 5 will show along the left of the screen). Use the ⌃ and ⌄ arrows to adjust the on time.
Press the icon 🕐 and use the ⌃ and ⌄ arrows to set the time (1st period).Press   🕐   again and use ⌃ and ⌄ arrows to set the temp.
Press the icon 🕐 and use the ⌃ and ⌄ arrows to set the time and temp. (2nd period).Repeat this process for periods 3 4 and 5 6.
Press the icon 🕐 once more to enter the Saturday schedule settings (6 will show along the left of the screen).
Repeat the above process to set the period and temp. and Sunday schedule.
Press 🕐 once more to confirm and exit.

Default settings for program schedule

Time display	WEEKDAY (MONDAY – FRIDAY) (1 2 3 4 5 shows on screen)		WEEKEND (SATURDAY) (6 shows on screen)		WEEKEND (SUNDAY) (7 shows on screen)	
	TIME	TEMPERATURE	TIME	TEMPERATURE	TIME	TEMPERATURE
Period 1	06:00	20℃	06:00	20℃	06:00	20℃
Period 2	08:00	15℃	08:00	20℃	08:00	20℃
Period 3	11:30	15℃	11:30	20℃	11:30	20℃
Period 4	13:30	15℃	13:30	20℃	13:30	20℃
Period 5	17:00	22℃	17:00	20℃	17:00	20℃
Period 6	22:00	15℃	22:00	15℃	22:00	15℃

A separate schedule may be set for weekdays (Mon – Fri) and for weekends (Sat or Sun).

7. Checking the Temperature of Floor Sensor

Press and hold the ⌄ arrow for 5 seconds to display the temp. of floor sensor.

8. Return To Factory Default

Press the Reatore Manufacturer Defaults, you can reset thermostat.
Steps:Open your app -go into your room - click menu on the top right corner - move to the end - Press Restore Manufacturer Defaults.

9 Setting the Functions and Options During Power Off

When power is off, press and hold ⊞ and 🕐 at the same time for 5 sec. in order to reach system function. Then press ⊞ to scroll through the available functions, and use the ⌃ and ⌄ arrows to change the available options. All settings can confirm automatically.

Code	Function	Setting and options	Default
1	Temperature compensation	-7 to + 7 ℃ (for internal sensor)	-1
2	Deadzone Temperature	1 ~ 5 ℃	1
3	Button locking	00: All buttons are locked except power button. 01: All buttons are locked.	01
4	Sensor types	In: Internal Sensor（to control or limit the temp.） Ex: External Sensor（to control or limit the temp.） Ou: Only external sensor AL: Internal/ External Sensor（Internal sensor to control the temp., external sensor to limit the temp.）	AL
5	Min. Set Temp.	5-15 ℃	05
6	Max. Set Temp.	15-45 ℃	35
7	Display Mode	00： Display both set temp. and room temp. 01： Display set temp. only	00
8	Low temperature protection setting.	0-10 ℃	00
9	High temperature protection setting.	25-70 ℃	45
A	Economy Mode	00： Non-energy saving Mode 01： Energy saving mode	0
B	Economy Temp.	0-30 ℃	20