

BHT-2005 Smart Thermostat

Product User Manual



Welcome to the BHT-2005 Smart Thermostat! Thank you for choosing our product

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. The main power switch must be cut off before installing or disassembling this product to prevent electric shock.
5. This product needs to be kept away from fire and water sources during installation and use.
6. This product cannot be used in humid environments (such as bathrooms).
7. The product needs to be installed in an outlet box or cassette that meets the standards of related countries.
8. After installation is complete, check out product operation as provided in these instructions.

About your thermostat

The BHT-2005 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.

GA: Water heating, max 5A

GB: Electric floor Heating, max 16A

GC: Water/Gas Boiler, max 5A

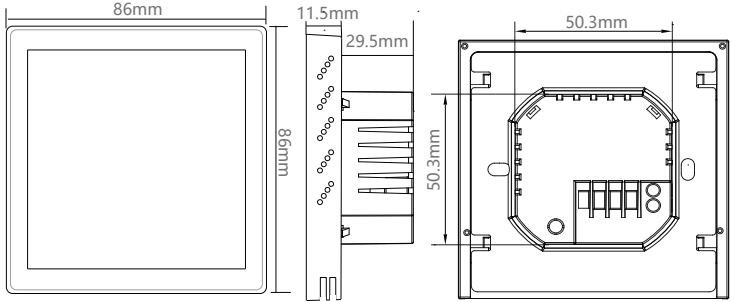
Product Specifications

Name	Technical Specifications
Screen	4 inches,TFT Screen, 480*480 IPS
Power Supply	95 ~240 VAC, 50/60Hz or 24V DC/AC, 50/60Hz
Current Load	5A (Water heating, Gas boiler), 16A (Electric heating)
Set Temp. Range	5-45°C
Display Temp. Range	5 ~ 99°C
Sensor	NTC3950, 10K
Operating Environment	0~ 45°C, 5 ~ 95 % RH (Non Condensing)
Shell Material	PC +ABS (Fireproof)
Installation Box	86 * 86mm Square or European 60mm Round Box
Wire Terminals	2 x 1.5 mm ² or 1 x 2.5 mm ²

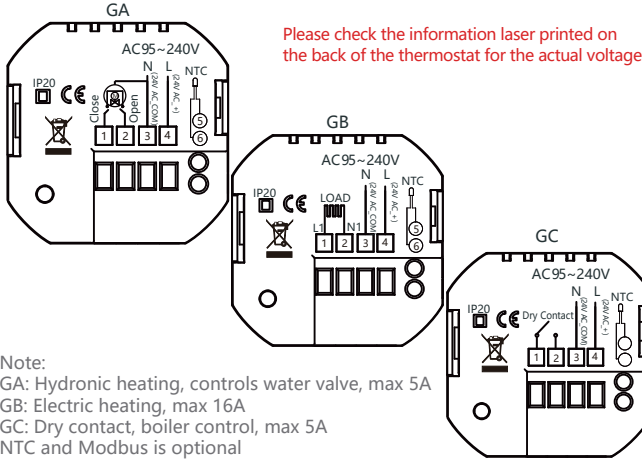
Features

- 4-inch HD touchscreen, 480*480 IPS LCD, vibrant display with easy touch controls;
- Tempered glass keeps your screen free from scratches, handling daily scrapes with ease, maintaining a crystal-clear texture for long-term use;
- Sensitive interactive feedback, smooth operation with faster response times;
- One-touch switching for child lock, energy-saving, modes, and screen-off functions, offering a more user-friendly layout;
- Power failure memory storage automatically backs up running data during unexpected power outages, resuming from the original settings after restart;
- 7-day, 6-time-slot independent programming mode preset adjustment;
- Supports local group creation and sharing for unlimited centralized control;
- Seamlessly integrates with Xiaodu, Amazon Echo, and Google Home for voice control;
- The app records temperature changes, providing a clear overview of fluctuations;

Dimensions and appearance



Wiring



Note:

GA: Hydronic heating, controls water valve, max 5A

GB: Electric heating, max 16A

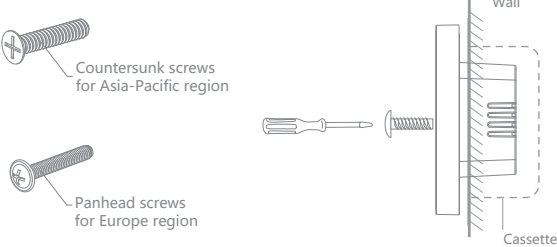
GC: Dry contact, boiler control, max 5A

NTC and Modbus is optional

- 1.The distribution box must have a fire resistance rating of at least 5V.
- 2.There should be no other metal conductive objects in the distribution box.
- 3.The distance between the opening of the product body and the opening of the junction box should be at least 1 cm.
- 4.This product requires live and neutral wire power supply. Please ensure proper wiring in advance.

Installation instructions

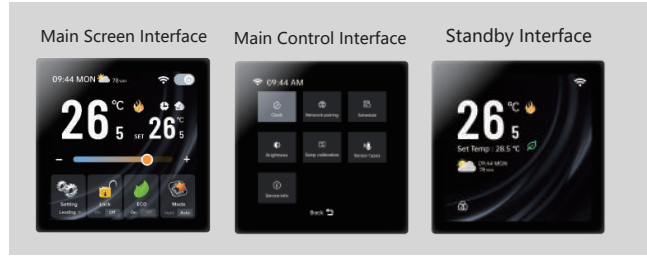
- Check the wiring to ensure secure terminal connections with no exposed wires.
- Use the correct type of screws, countersunk screws for Asia-Pacific region, panhead screws for Europe region, to fix the base to the cassette, and then buckle back the panel.
- Please note that the screws should not be tightened too tightly during the installation process to avoid deformation or damage to the screen or hardware.
- If you encounter any problem with the installation, do not press too hard to force the installation. You should level the wall first and check the bracket.



Interface description

For first-time use of this thermostat, ensure that the wiring is correctly installed. Once confirmed, turn on the power switch. The screen will light up.

The BHT-2005 Smart Thermostat features full-screen touch control, allowing you to directly switch modes, calibrate the clock, set weekly programming parameters, and perform various other functions on the device



Thermostat Network Configuration

- ① Search for "Smartlife" in Apple Store or Google Play (Fig 1.1) or scan the QR code on the instructions to download and install the App(Fig 1.2).



Fig 1.1



Fig 1.2 IOS/Android

- ②For the first-time use, please click the "Register "button to register an account; If you already have an account, click the "Login" button.

③ Connection Settings

Click the thermostat main screen settings option, select the network configuration option in the main control functions, and click the network configuration icon on the subpage. The icon will begin flashing (Fig. 2.1-2.3)



Fig 2.1

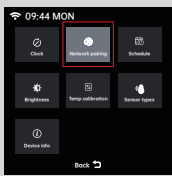


Fig 2.2

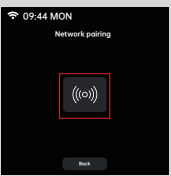


Fig 2.3

Bluetooth Network Configuration

Turn on Bluetooth and WiFi on your phone, open the app, and follow the tutorial to complete the setup (Fig. 3.1-3.6)

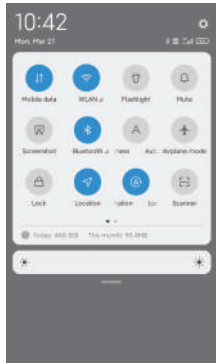


Fig3.1



Fig3.2

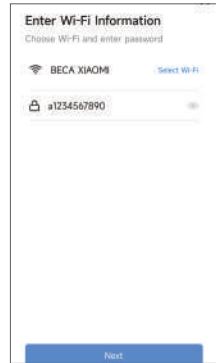


Fig3.3

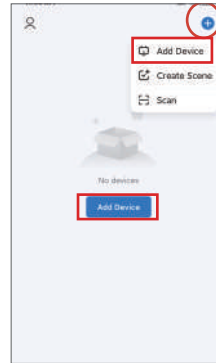


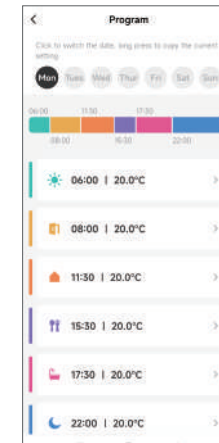
Fig3.10



Fig3.11



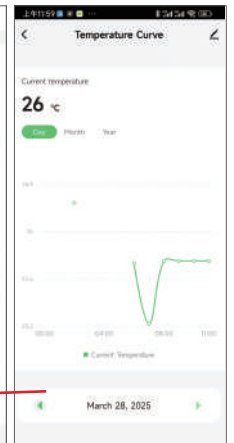
Fig3.12



Program schedule



Setting



Statistics

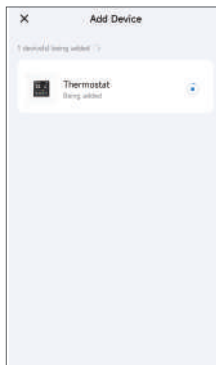


Fig3.4

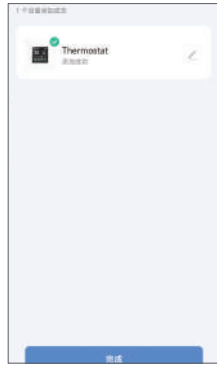


Fig3.5

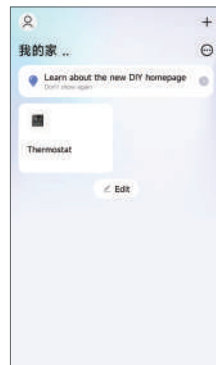


Fig3.6

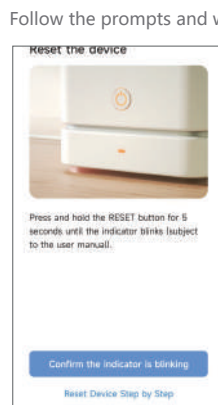


Fig3.13

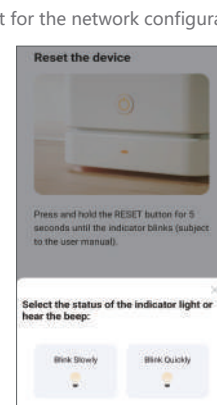


Fig3.14



Fig3.15

Follow the prompts and wait for the network configuration to complete (Fig. 3.13-3.15).

QR Code Network Configuration

Open the app, scan the QR code (Fig. 3.8) for network configuration (Fig. 3.1 & Fig. 3.7-3.9). After a successful scan, follow the on-screen instructions for further setup.

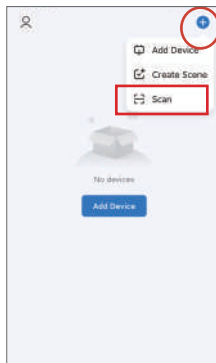


Fig3.7



Fig3.8

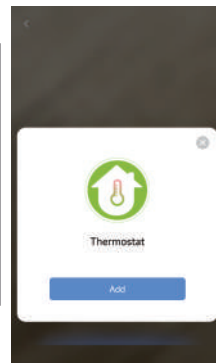
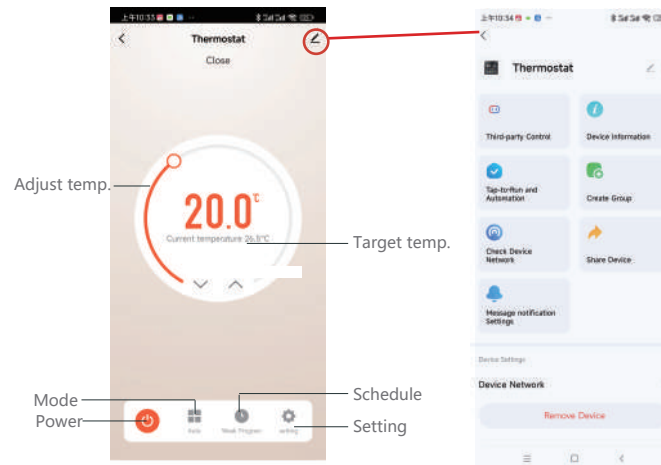


Fig3.9

APP operation interface description (heating thermostat)



Default settings for program schedule

Time display	MON		TUE		WED		THU		FRI		SAT		SUN	
	Time	Temp.	Time	Temp.	Time	Temp.	Time	Temp.	Time	Temp.	Time	Temp.	Time	Temp.
Period 1	06:00	20	06:00	20	06:00	20	06:00	20	06:00	20	06:00	20	06:00	20
Period 2	08:00	20	08:00	20	08:00	20	08:00	20	08:00	20	08:00	20	08:00	20
Period 3	11:30	20	11:30	20	11:30	20	11:30	20	11:30	20	11:30	20	11:30	20
Period 4	13:30	20	13:30	20	13:30	20	13:30	20	13:30	20	13:30	20	13:30	20
Period 5	17:30	20	17:30	20	17:30	20	17:30	20	17:30	20	17:30	20	17:30	20
Period 6	22:00	20	22:00	20	22:00	20	22:00	20	22:00	20	22:00	20	22:00	20

Quick Solutions for Common Operational Issues

No.	Phenomenons	Handling
1	Power is on but without display	Check if the terminals between panel and Power Unit Box is loosen
2	Without output but display works	Use a new panel or new Power Unit Box to replace the old one
3	Room Temp. Is a little different from the actual	On the main screen, select Temperature Compensation to adjust

Service

Your thermostat carries an 24 months warranty from date of purchase. Service out with the warranty period may incur a charge. More detail please contact with us directly.