

BHT-2005Pro Smart Scene Thermostat

Product User Manual



For Water Heating/Boiler/Electric Heating

Welcome to the BHT-2005Pro Smart Scene 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 Pro 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	Fan Relay Amps Resistance: 5A; Inductive: 3A Valve Relay Amps Resistance: 3A; Inductive: 1A
Set Temp. Range	5-45°C
Display Temp. Range	0 ~ 70°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 mm² or 1 x 2.5 mm²

Features

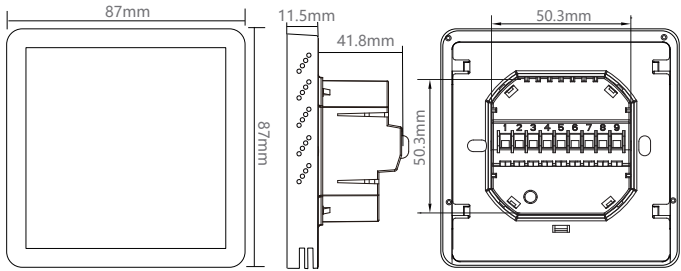
On Appearance

- 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;

On Function

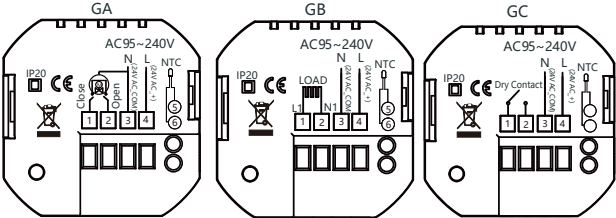
- It integrates core information such as time, day of the week, weather, and temperature, and is equipped with quick access to 8 commonly used scenarios,
- making the status clear at a glance.Power failure memory storage automatically backs up running data during.
- 7-day, 6-time-slot independent programming mode preset adjustment;
- Supports adding a single device or multiple devices for unified settings;
- It supports seamless one-click switching between standby and settings interfaces, providing a smooth and convenient operation that allows users to quickly adjust device parameters and modes.
- Seamlessly integrates with voice control methods such as Baidu's Xiaodu, Amazon Echo, and Google Home;
- The app records temperature and allows for a one-click factory reset, quickly resetting the device's status. View temperature changes at a glance;
- The device fully supports customizable scene settings, allowing users to freely combine and personalize smart scenes to suit their lifestyle habits, adapting to diverse life needs with a single click.

Dimensions and appearance



Wiring

Please check the information laser printed on the back of the thermostat for the actual voltage

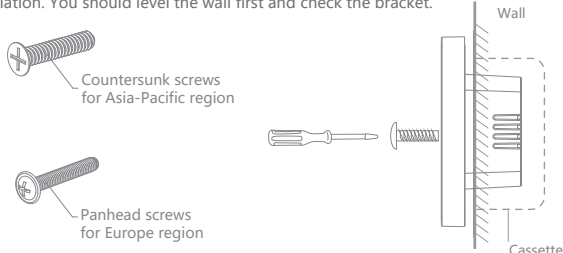


Note:
GA: Hydronic heating, controls water valve, max 5A
GB: Electric heating, max 16A
GC: Dry contact, boiler control, max 5A
NTC and Modbus is optional

- 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-Pacificregion, panhead screws for Europe region, to fix the base to thecassette, 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 tothe screen or hardware.
- If you encounter any problem with the installation, do not press toohard 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-2005Pro Smart Scene 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.

Main Screen Interface



Main Control Interface



Standby Interface



The BHT-2005Pro supports one-click factory reset and boiler type selection.

Device adapter interface



Device reset interface



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 nstall 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

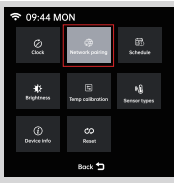


Fig 2.2

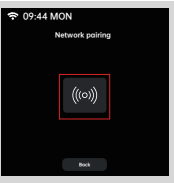


Fig 2.3

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

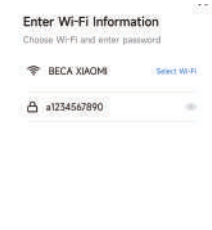


Fig3.3

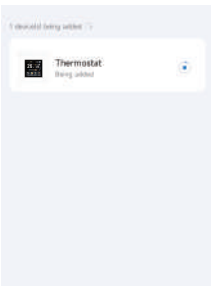


Fig3.4



Fig3.5

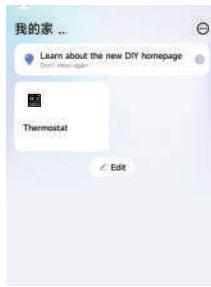


Fig3.6

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.

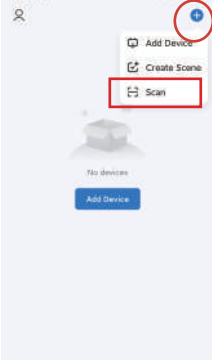


Fig3.7



Scan the QR code in the app for quick thermostat pairing

Fig3.8

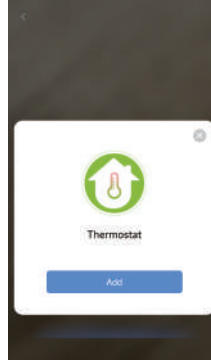


Fig3.9

Compatibility Mode Network Configuration

Open the app, click "Add Device," and select the thermostat option for network setup (Fig. 3.1 & Fig. 3.10-3.12)

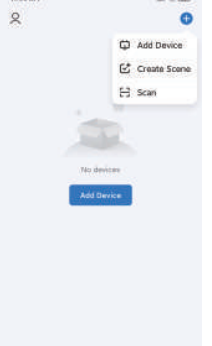


Fig3.10

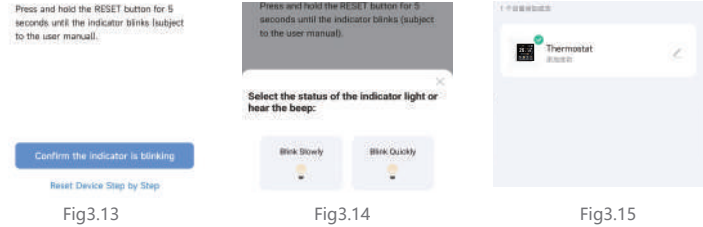


Fig3.11

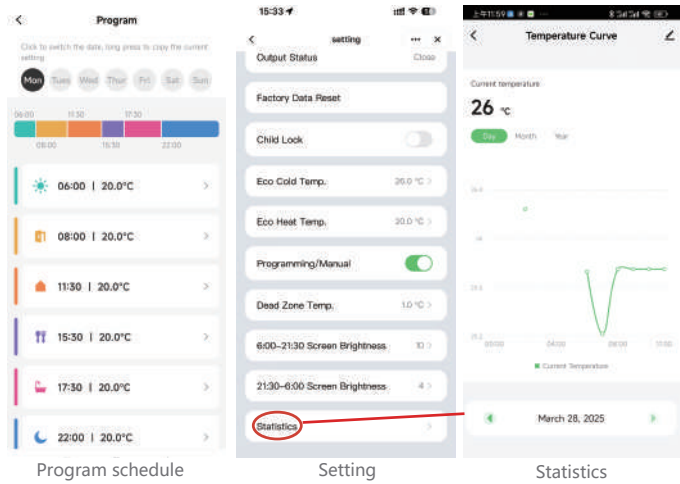
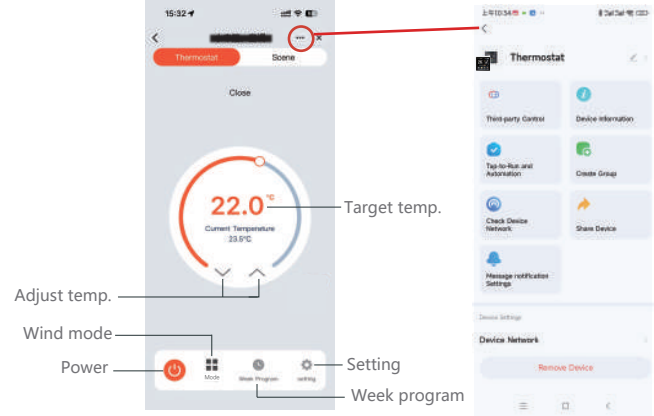


Fig3.12

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

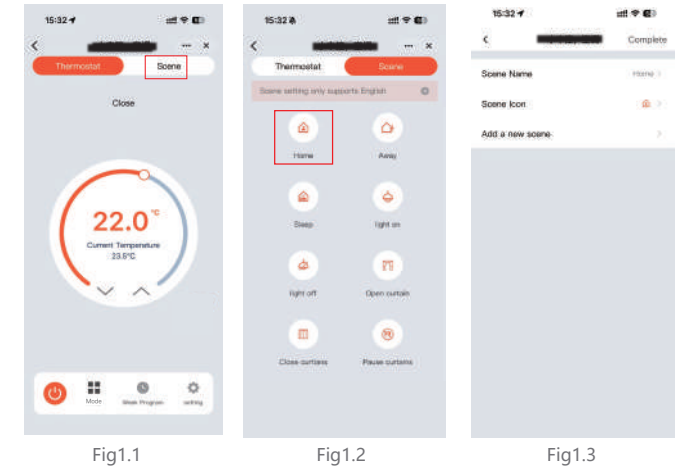


APP operation interface description (Heating)

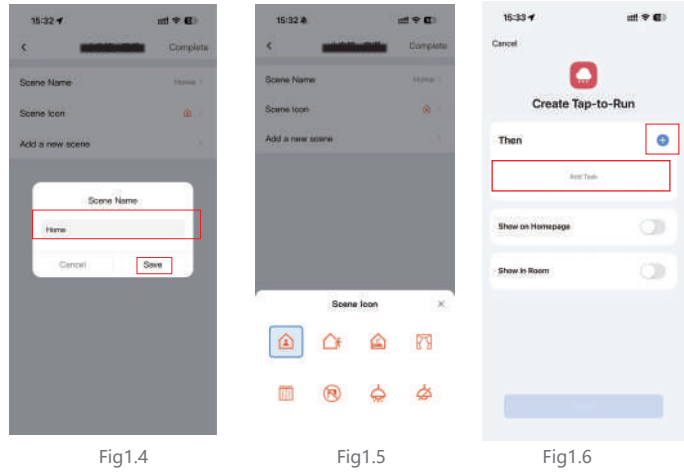


Scene Function Mode Settings

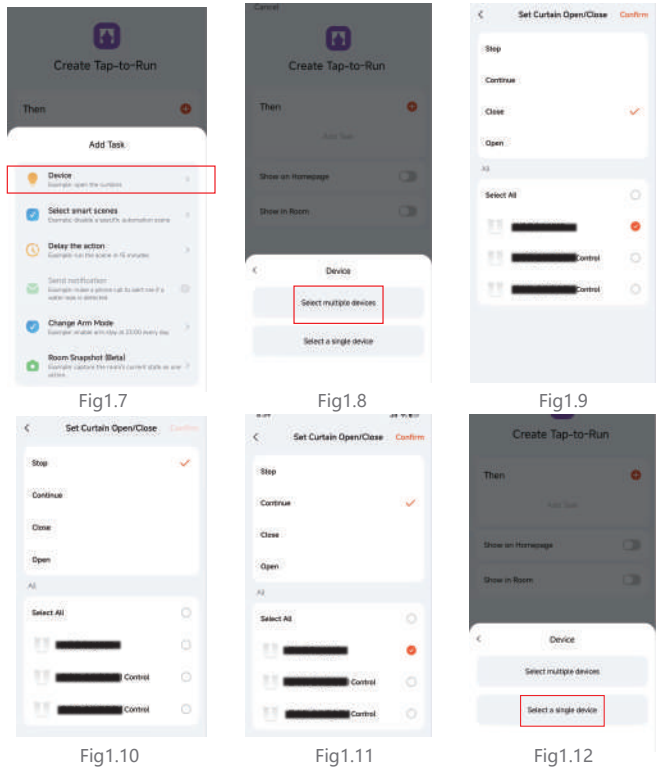
After successfully connecting to the WiFi network, enter the app interface, click the scene bar, and you can select the corresponding option and set the desired mode. By default, eight mode options can be displayed. All settings will be displayed on the product panel. Please refer to the images and text below for instructions. (Fig1.1-Fig1.3)



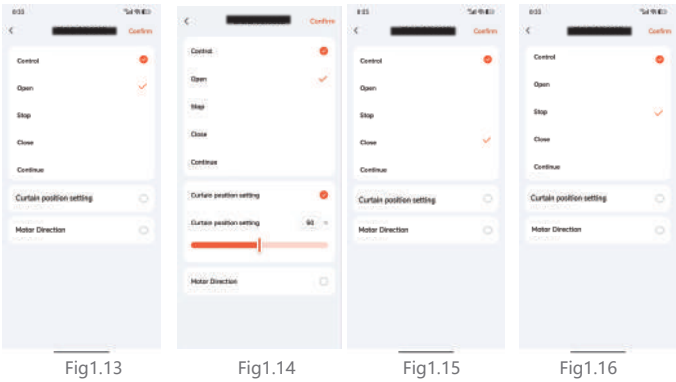
As shown in Fig1.3, clicking on any default mode allows you to modify its name and icon. You can also add another scene. (Fig1.4-Fig1.6)



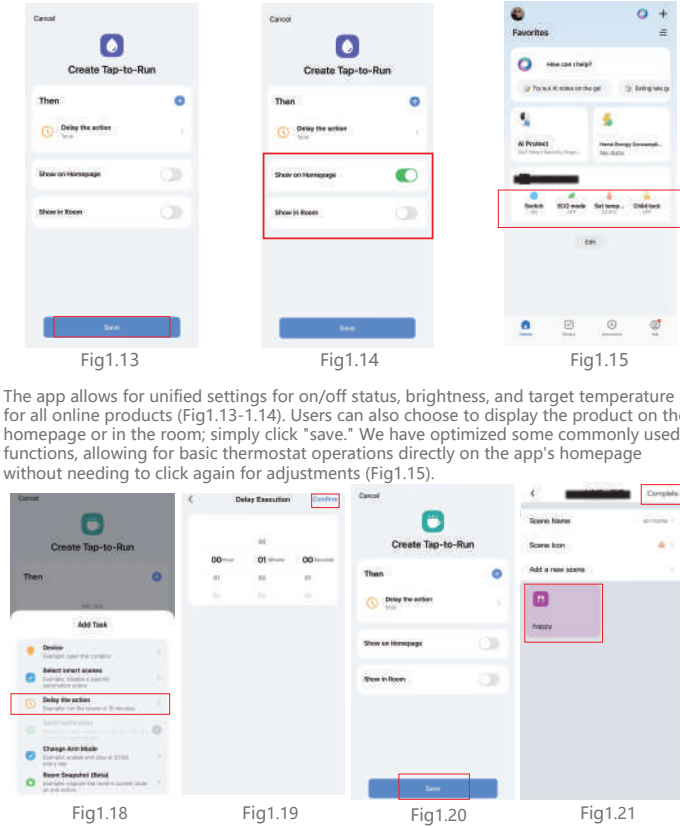
Note: For all custom scene modes added, ensure your device is online. You can select one or all online devices from the device selection list and configure them.



The option to add multiple devices can be configured according to Fig1.8-1.11.



The option to add a single device can be configured according to Fig1.12-1.16.



The app allows for unified settings for on/off status, brightness, and target temperature for all online products (Fig1.13-1.14). Users can also choose to display the product on the homepage or in the room; simply click "save." We have optimized some commonly used functions, allowing for basic thermostat operations directly on the app's homepage without needing to click again for adjustments (Fig1.15).

You can also set the scene mode to perform operations with a delay (Fig1.18-1.21). After completing all operations, click Save. You can then click and select a custom mode in the mode interface.

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	21:30	20	21:30	20	21:30	20	21:30	20	21:30	20	21:30	20	22:00	20

Setting the Functions and Options

After booting up and entering the home screen, click "Setting" to access the advanced options menu.

Code	Function	Setting and options		Default
1	In Temp Calibration	In:-9~-9°C		-8
2	Ou Temp Calibration	Ou:-9~-9°C		0
3	Sensor typer	In:Internal Sensor(to control the temp.) Ou:External Sensor(to control the temp.) AL:Internal/External Sensor (Internal sensor to control the temp., external sensor to limit the temp.)		AL
4	Max.Set Temp.	15~45°C		45
5	Min.Set Temp.	5~15°C		5
6	Blind zone Temp.	0.5~5.0°C		1.0
7	Eco Temp.	0~30°C		20
8	High Temp. protection setting.	10~70°C		45
9	Low Temp. protection setting.	0-10°C		0
10	Boiler typer	NO; NC		NO
11	Brightness at Daytime (6:00-21:30)	0-10	When set to 0, the device will run for 30 seconds after inactivity. The screen will go completely off with no display.	10
12	Brightness at Night (21:30-6:00)	0-10		1
13	Version			U1

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	Usea new panel or new Power Unit Box toreplace the old one
3	Room Temp. Is a little differentfrom 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.