MOES
HOME,SMART MOES HOME

Powered by **tuya**

Instruction Manual
BHT-12 Smart Thermostat
WTP-BY-EU

WORKS WITH **alexa**

WORKS WITH **Google Assistant**
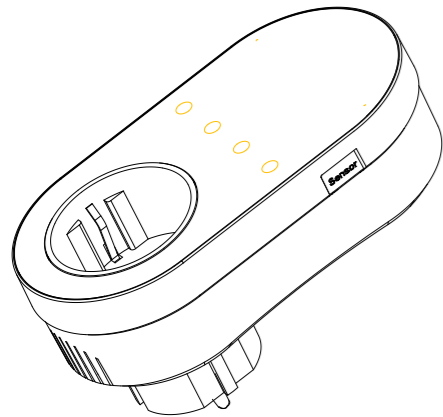
Transportation

The products shall be free from severe vibration, impact, exposure to rain, dumping and other problems during transportation, and shall comply with the provisions of the marks on the packing boxes.

Safety Information

1. Do not disassemble, reassemble, modify, or attempt to repair the product by yourself.
2. This product has no waterproof and dustproof function.

Thank you for purchasing

Thank you for choosing our thermostat. We are committed to bringing together high-end technology, high-quality produc-tion technology, safe and reliable materials to produce high-quality and low-cost products.
Please read this manual for comprehensive product informa-tion. Also make sure a professional installs the thermostat and follows all your local regulations.

Packing List

Thermostat*1   User Manual*1   QC certificate*1
External Sensor 2.5m (optional)*1

About Your Thermostat

BHT-12 is suitable for electric heating radiator, electric cooling and temperature control system.It can be used in smart homes, shopping malls, and industrial places.
Before use, please confirm that this product is compatible with your temperature control equipment.
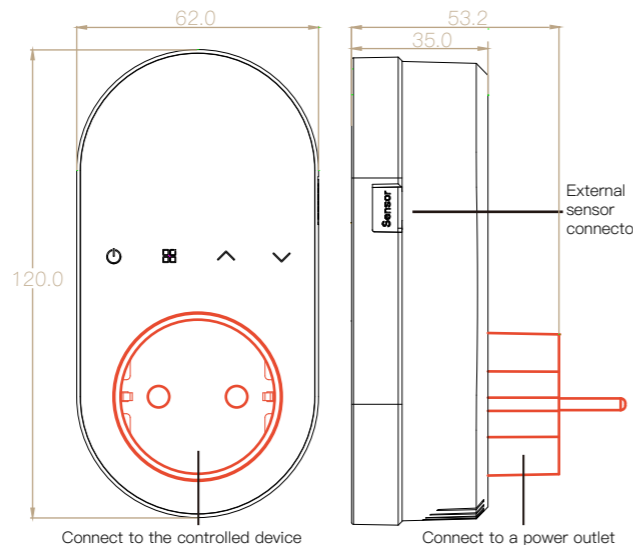
Appearance Features

1. Small size: small and flexible, can be installed without a large space;
2. Classic color matching: pearl white, midnight black, into a variety of decoration styles;
3. Warm hand feel: curved body, chamfer transition, no hand cutting;

Function Features

1. Touch buttons: no need to worry about the buttons being stuck and not rebounding;
2. Heat and cool dual mode: heating and cooling, one device, two control modes;
3. Internal and external dual senors; default built-in sensor, optional external sensor;
4. Heating indication: two working indicator lights on the left and right, know its working status without coming close;
5. Dual temperature systems: support Celsius-℃ and Fahrenheit-℉ switching;
6. Various plugs: optional plugs of various specifications, British standard, European standard, American standard, Australian standard, and national standard are optional;
7. Convenient control: The advanced options of the thermostat can be set in the APP, which is more convenient.
8. Intelligent voice: connected to Tmall Genie, Alexa, Google Assistant, Xiaodu, Yandex, voice control, which frees hands;
9. APP control: The APP supports ios/android system, and the temperature is updated in real time; automatically obtains the temperature and humidity, PM2.5 of the local area, and creates intelligent scenes. It has supported all regions and languages at home and abroad, and the service is more comprehensive.

Dimensions and installation instructions

Dimensions: millimeters (mm)

62.0
35.0
53.2
120.0

External sensor connector

Connect to the controlled device   Connect to a power outlet
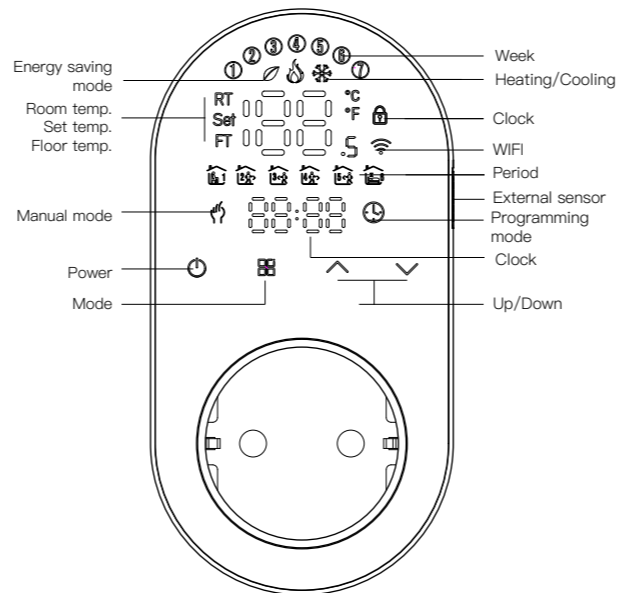
Precautions Before Installation

1. Before installation, please confirm that the plug type of this product is suitable for your local standard and heating equipment;
2. Please contact the after-sales service for equipment failure, please do not try to repair it by yourself;
3. After the installation, please refer to this manual to check again to ensure normal safety

Caution!
Electric shock hazard
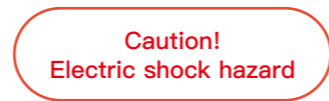
Product Parameters

Voltage: 95~220V, 50~60Hz
Maximum load: 16A
Temperature sensing element: NTC10K
Temperature control accuracy: ±0.5℃
Temperature control range: 5 – 90℃, can be changed in advanced options
Shell material: PC+ABS (flame retardant)
Working environment: 0 – 45℃, 5 –95%RH (no condensation)
Storage temperature: –5 – 55℃
Protection class: IP20
Display temperature range: 5~99℃

Product UI

Energy saving mode
Room temp.
Set temp.
Floor temp.

Manual mode

Power
Mode

Week
Heating/Cooling
Clock
WIFI
Period
External sensor
Programming mode
Clock
Up/Down

Manipulation Instructions

1.Power: Press ⏻ to turn the thermostat on/off.
2.Cooling / Heating mode: This thermostat supports cooling or heating mode, which can be selected and switched in the APP, or refer to "Advanced Options Settings".
3.Manual/Programming/Temporary Manual/Holiday Mode:
Press ▦ in the APP or on the control panel of the thermostat to switch between Manual/Programming/Holiday mode. Depending on the mode, the corresponding icon will be displayed at the top of the screen.
Manual Mode ✋ : In this mode, the thermostat controls the device according to the manually set temperature.
Programming Mode 🕐 : In this mode, the screen displays the current programming cycle the thermostat is in, and the thermostat controls the device according to the weekly programming schedule. Please refer to point 7 for timetable setting.
Temporary manual mode: In the programming mode, manually adjust the temperature and enter the temporary manual mode. At this time, the screen display icon " ✋ " will flash, and the thermostat will execute the current set temperature at this time, and the temperature will restore during next weekly programming cycle.
Holiday Mode 🕐 ✋: In this mode, the screen will display the icons " 🕐 " and " ✋ ", and the thermostat will maintain a fixed temperature until the holiday is over. Lasting days of Holiday Mode can be set in the APP or Or long press " ▦ " to enter the clock setting, then press " ▦ " 4 times to enter the holiday mode day setting, the test screen "RT" will flash..
4.Temperature setting: Press " ∧ "/" ∨ " to set the target tempera-ture.
5.Time setting: The Wifi version will automatically synchronize the time after connecting to the network. Or long press " ▦ " to enter the time setting, and press " ∧∨ " to adjust the value, respectively set up for minutes, hours, and days of the week ("①" at the top of the screen means Monday, "②" means Tuesday, and so on) . After the adjustment is completed, press " ⏻ " to exit the time setting.
6.Child lock 🔒 : Press and hold " ∧ " and " ∨ " at the same time for 5 seconds, the thermostat will enter the child lock mode. You can also set full lock and half lock in advanced options, please refer to the description of advanced options below.
7.5+1+1 programming mode setting: wifi version can be set in APP. In the non-wifi version, long press " ▦ " to enter the clock setting, and then press " ▦ " 4 times to enter the programming mode setting. At this time, the screen displays (①②③④⑤), the minute of the time flashes, and the cycle is 1 " 🕐 ". Then press " ▦ " to select and set the hour, temperature and cycle. Press " ∧ " or " ∨" to adjust the corresponding value. After completing the setting, you need to shut down once to store the data in the thermostat.

Default settings for program schedule

Time display	MON. –FRI. (①②③④⑤ shows on scteen)		SAT. (⑥shows on scteen) 8:00~11:30		SUN. (⑦shows on scteen)	
	TIME	TEMP.	ON TIME	TEMP.	ON TIME	TEMP.
Period 1	6:00~8:00	20	6:00~8:00	20	6:00~8:00	20
Period 2	8:00~11:30	15	8:00~11:30	20	8:00~11:30	20
Period 3	11:30~13:00	15	11:30~13:00	20	11:30~13:00	20
Period 4	13:30~17:00	15	13:30~17:00	20	13:30~17:00	20
Period 5	17:00~22:00	22	17:00~22:00	20	17:00~22:00	20
Period 6	22:00~6:00	15	22:00~6:00	15	22:00~6:00	15

8.External sensor data query: long press " ∨ " for 5 seconds, the screen will display the temperature of the sensor data.
If no external sensor is connected, "err" will be displayed

Advanced Options Settings

In the power-off state, long press " ▦ " for 5 seconds to enter the advanced options settings. Press " ▦ " to select a function, and press " ∧ " or " ∨ " to adjust the corresponding code.
All advanced options settings will take effect automatically after restarting the thermostat.

Code	Function	Setting and options	Default
1	Temperature compensation	-9 to 9 ℃	-3
2	Deadzone Temp.	1–5℃	1
3	Button Locking	01:All buttons are locked except power button. 01:All buttons are locked.	01
4	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
5	Min.Set Temp.	5–15℃	5
6	Max.Set Temp.	15–45℃	35
7	Temperature display	00: Display the room temperature and the set temperature, press the up and down keys to display the set temperature 01: Only display the set temperature	00
8	Low temp. protection setting.	0–10℃	0
9	High temp. protection setting.	25–70℃	50
10	Energy saving Mode	00:OFF 01:ON	00
11	Cool Energy saving Temp.	10–50℃	20
12	Heat Energy saving Temp.	10–50℃	26
13	Cool/Heat	0: Cool Mode 1: Heat Mode	01
14	℃/℉	0: Degree Celsius ℃ 1: Fahrenheit ℉	00
15	Screen brightness when no operation	0–8, when set to 0, after 10 seconds of no operation, the screen will turn off, press the up and down keys to wake up	1
16	Reset	00: No factory reset; 01: Factory reset	00
17	Version number		U1

Preparation for use

① Download MOES App on App store or scan the QR code.

[QR code image]

② Registration or Log in.

Register
- Region
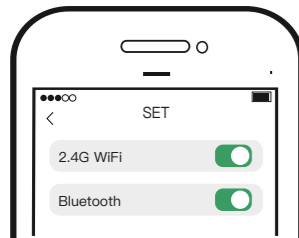- Mobile number/e-mail address
- Obtain verification code

• Download "MOES" Application.
• Enter the Register/Login interface; tap "Register" to create an account by entering your phone number to get verification code and "Set password". Choose "Log in" if you already have a MOES account.
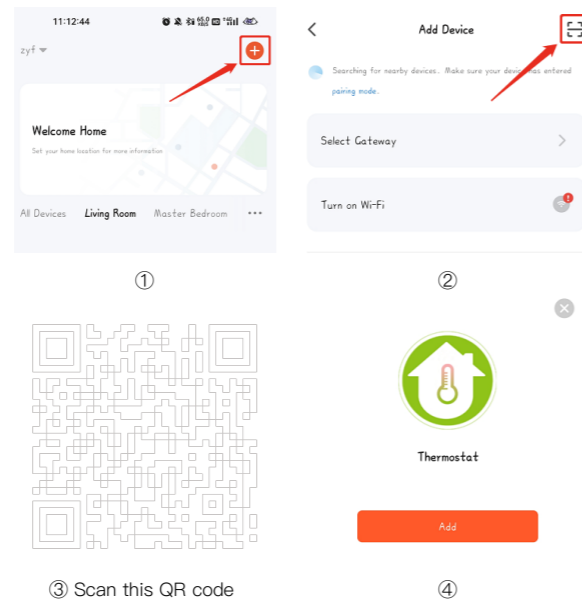
Steps for connecting the APP to the device
Method One:
1. Make sure your phone is connected to Wi-Fi and Bluetooth.

SET
- 2.4G WiFi
- Bluetooth

2. Scan the QR code to configure the network guide.

[Screenshot: Welcome Home]

①

[Screenshot: Add Device - Select Gateway, Turn on Wi-Fi]

②

[QR code]

③ Scan this QR code

[Screenshot: Thermostat - Add]

④

Steps for connecting the APP to the device
Method Two:
1. Make sure your phone is connected to Wi-Fi and Bluetooth.
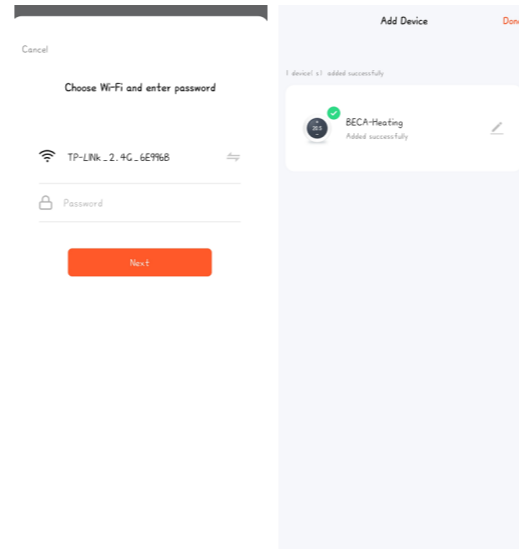
SET
- 2.4G WiFi
- Bluetooth
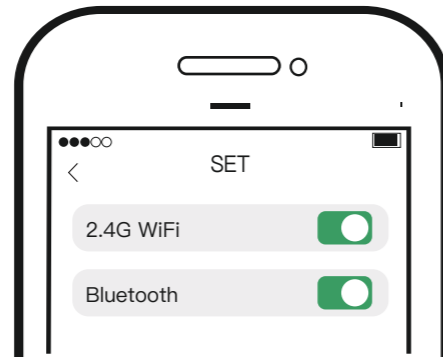
2. Reset: When the thermostat is off, press and hold the "∨"until the thermostat screen flashes quickly and displays the "⌁" icon.

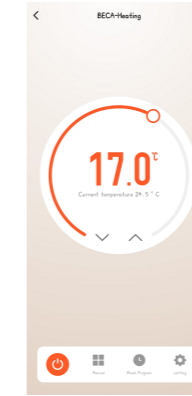3.Open MOES App,then the prompt page will automatically show on the screen. Click "Add", Select the device you want to add and click "+".

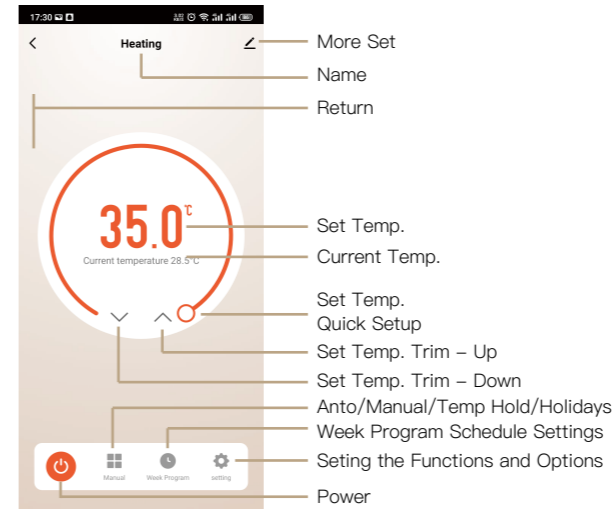[Screenshot: Add Device]

[Screenshot: No devices - Add Device]
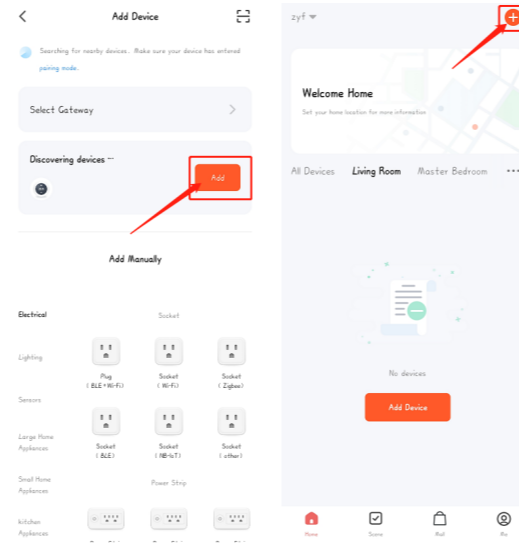
4. Enter Wi-Fi Password and click "Next", waiting for completing the connection. Add the device successfully, you can edit the name of the device to enter the device page by click "Done".

[Screenshot: Choose Wi-Fi and enter password - TP-LINK_2.4G_6E99GB - Password - Next]

[Screenshot: Add Device - BECA-Heating Added successfully - Done]

5.enjoy your smart life with home automation.

[Screenshot: BECA-Heating 17.0℃ Current temperature 24.1℃]

APP operation interface description (heating thermostat))

[Screenshot: Heating 35.0℃ Current temperature 28.5℃]

- More Set
- Name
- Return
- Set Temp.
- Current Temp.
- Set Temp.
- Quick Setup
- Set Temp. Trim – Up
- Set Temp. Trim – Down
- Anto/Manual/Temp Hold/Holidays
- Week Program Schedule Settings
- Seting the Functions and Options
- Power

Simplement Exception Handling

No.	Phenomenons	Handling
1	Power is on but without display.	* Check if the terminals between LCD panel and Power Unit Box is loosen.
2	Without output but display works.	* Use a new LCD panel or new Power Unit Box to replace the old one.
3	Room Temp. Is a little different from the actual.	*Do temperature calibration in item 1 of high senior options

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