BHT-8000RF-HUB Smart Wireless Controller



Before wiring and installing

1. Please confirm that this product is suitable for your heating equipment before installation;
2. Be sure to keep the power off before installation or maintenance;
3. Please strictly follow the wiring diagram for wiring installation;
4. When installing to the wall, please confirm that it is fastened and suitable for this product;
5. Do not pull the cable hard, otherwise it will cause damage to the product;
6. If a hard plastic wire is used in the installation process, it must be bent to an appropriate angle in advance;
7. Please arrange professional installation;
8. Please contact the after-sales service for equipment failure, please do not try to repair it yourself;
9. After installation, please refer to this manual to check again to ensure normal safety.

About your controller

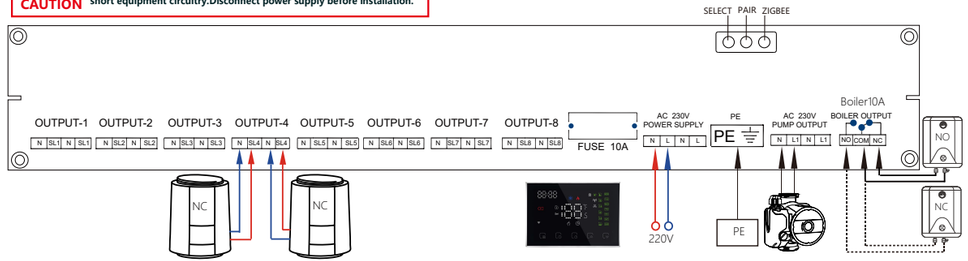
The controller is compatible with boiler and wall-hung furnace temperature control systems such as the BHT-8000RF. It can be applied to smart home, shopping mall and industrial scenarios.
Before installation, confirm the exact product model and matching heating equipment. Refer to the wiring diagram for model identification or consult your supplier.
Note: The display panel cannot be powered by USB and battery simultaneously; select only one power supply mode.
The panel must be turned on when charging via USB.

Features

Wireless controller:
On Appearance
1. No junction box pre-reservation or drilling needed for installation.
2. The controller can be moved freely anywhere.
On Function
1. Extremely low power consumption, long-lasting and stable operation, with a lifespan of up to 2 years.
2. Temperature control accuracy: ±0.5℃ for comfortable constant warmth.
3. Power failure protection saves all settings against unexpected blackouts.
4. Programmable schedule with four adjustable periods per day.
5. Energy-efficient design reduces running cost, eco-friendly and smart.
6. Compatible voice assistants: Tmall Genie, Amazon Echo, Google Home, Yandex Alice, Xiaomi Smart Speaker, Duer Smart Speaker.
7. Supports APP remote control to adjust room temperature anytime and anywhere; compatible with cooling boilers.

Wiring

CAUTION Electrical Shock or Equipment Damage Hazard,can shock individuals or short equipment circuitry.Disconnect power supply before installation.



In the box you will find

Controller*1 Hub*1 Bracket*1 Screw*2 No-mark hooks*2
QC passed*1 User Guide*1 USB cable*1 RF Antenna*1

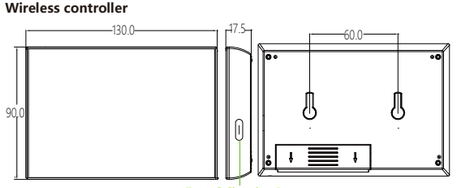
Technical data

Wireless controller:

LED Panel power supply	Battery Powered	**Temperature control accuracy**	0.5℃
Temp. Error	±1℃	**Sensor**	NTC3950,10K
Timing Error	<1%	**Set Temp. Range**	5～35℃
Working Ambient Temp/ Humidity	0～45℃, 5～95% RH (Non Condensing)	**Power consumption**	<1.5W
LED Panel Material	PC+ABS (Fireproof)	**Receiver Installation**	Wall-mounted
Protection Class	IP20	**Buttons**	Capacitive Touch Buttons
Screen	LED	**Charging Method**	LED

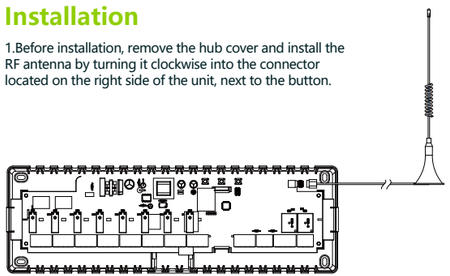
Dimension Unit: (mm)

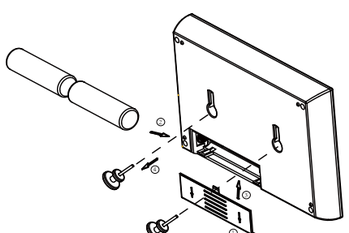
Wireless controller



Installation

1.Before installation, remove the hub cover and install the RF antenna by turning it clockwise into the connector located on the right side of the unit, next to the button.

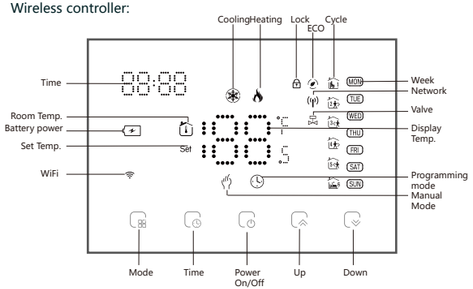




2.Wall-mounted installation steps:
(1) Remove the battery cover
(2) Install two 5A batteries
(3) Install the battery cover
(4) Fix the traceless hook on the wall ,then hang the product

Home screen quick reference

Wireless controller:



Controller operating instructions

1. Power: Press the to turn the display panel ON/OFF.
Note: When running on battery power, the display shuts down and enters power-saving mode after 40 seconds of idle operation.
When powered via USB, the panel keeps running without standby sleep.
The unit runs on 2×AA batteries. A low-battery icon will pop up on screen when voltage is insufficient ; replace batteries promptly.

2、Manual & programming mode: Press to switch manual mode and programming mode .
Manual Mode: Users set temperature manually.
Program Mode: Thermostat regulates temperature per preset parameters. See "Program Mode Setup" for details.

3. Temp. Set: Press / to set the temperature. Temperature adjustment is only available under Manual Mode.

4. Cooling & Heating Modes: Item 4 in advanced options defaults to heating-only mode. long-pressing is invalid and the unit stays in heating mode permanently. To change, access Item 4 of advanced options and switch to cooling-heating mode. Long press for over 3 seconds to toggle between cooling and heating modes.

5. Time Set: press to enter time-setting mode, press / to adjust values for minute, hour and weekday (the screen displays "MON" for Monday, "TUE" means Tuesday, and so on) for setting. After the adjustment is complete, press to exit after setup completion.

6.Lock: Long press / to lock the transmitter panel. Long press again to enable the lock. Full lock is enabled by default. To change it to half lock, enter Advanced Options and set Option 3 to Half Lock.

7. Network Configuration: With the device powered off, press for 8 seconds to initiate pairing with the mobile APP.

8. Pairing: With the unit powered off, press for 3 seconds; the pairing icon flashes. It stays steadily lit upon successful pairing. Pairing timeout is 1 minute.

9. Programming Set:
Short press to enter weekly programming menu; the screen displays independent temperature and time settings for all seven days.
Minute digits start blinking. Press to cycle among hour, minute and temperature items.
Use / to modify corresponding values. Settings save automatically to the transmitter panel after configuration.Upon completion of settings, press to exit Program Mode.

Default settings for program schedule:

Display Time	MON.		TUE.		WED.		THU.		FRI.		SAN.		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	11:30	20	11:30	20	11:30	20	11:30	20	11:30	20	11:30	20	11:30	20
Period 3	13:30	20	13:30	20	13:30	20	13:30	20	13:30	20	13:30	20	13:30	20
Period 4	17:30	20	17:30	20	17:30	20	17:30	20	17:30	20	17:30	20	17:30	20

Setting the Functions and Options

When the display panel is powered off, press and simultaneously for 5 seconds to enter Advanced Settings.Press to select functions, and press / to adjust corresponding values.

Code	Function	Setting and options	Default
1	Temperature compensation	-9-9℃	-1
2	Deadzone Temp.	1-5℃	1
3	Button Locking	00:All buttons are locked except power button 01:All buttons are locked.	01
4	Cooling/Heating	00: Only Heating Mode; 01: Cooling/Heating Mode;	00
5	Min.Set Temp.	5~15℃	5℃
6	Max.Set Temp.	35~45℃	45℃
7	ECO Mode	00: OFF 01: ON	00
8	ECO Temp.	5~30℃	20
9	Low Temp. protection setting	0~10	0
10	Display Mode	00: Not displayed LED; 01: LED Full Display;	01
11	Restore factory settings	00: Normal mode, 01: Factory mode	00
12	Version NO.		U1

About Zigbee

ZigBee CONNECTION

Step 1.Download your APP（Fig1.1）

Search for "Smartlife" in the Apple Store or Google Play, or scan the QR code above using your browser (Fig 1.1-1.2), and follow the app's instructions to complete account registration and installation.

Fig1.1

Fig1.2 IOS/Android

Step 2. The second step is to confirm that you have connected to the Tuya zigbee wired or wireless gateway.

For the gateway connection process, please refer to the manual of the gateway you purchased; the following process is based on the "wireless smart zigbee gateway".

Step 3.Connect the hub

Follow the tutorial below to complete the connection and setup.

Connect to the Zigbee gateway:

Long-press the gateway reset button until the blue LED stays solid on and the red LED flashes. Complete gateway connection following the instructions below (Fig.2.1~Fig.2.7).

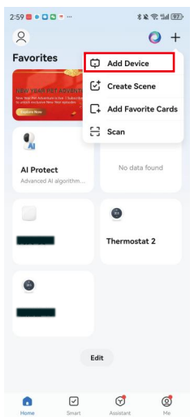


Fig 2.1

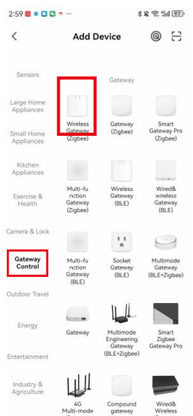


Fig 2.2

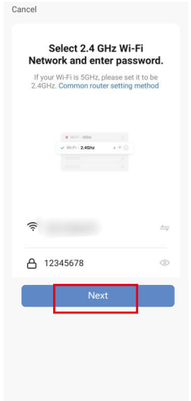


Fig 2.3



Fig 2.4

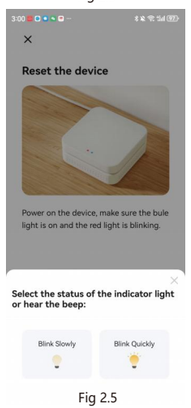


Fig 2.5

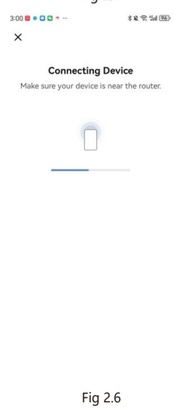


Fig 2.6

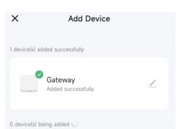


Fig 2.7

Network distribution mode

Adding a hub and controller to a Zigbee gateway : Controller: With the transmitter powered off, long press for more than 8 seconds until blinks. Complete device addition on the gateway per subsequent instructions (Fig.2.8~Fig.2.12).

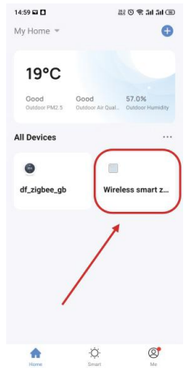


Fig 2.8

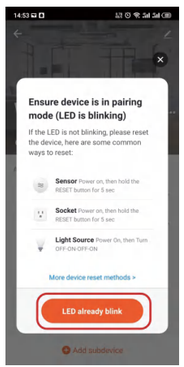


Fig 2.9

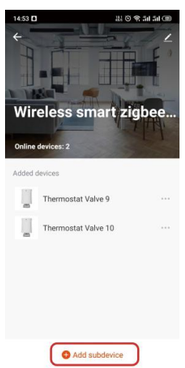


Fig 2.10

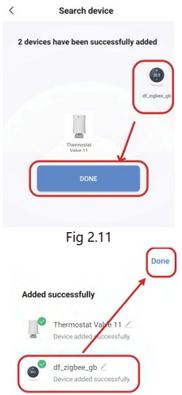
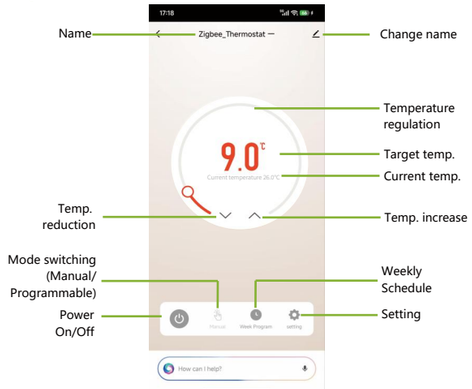


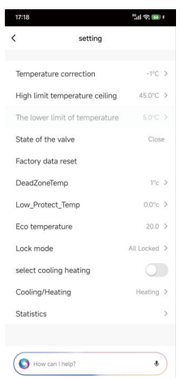
Fig 2.11

Fig 2.12

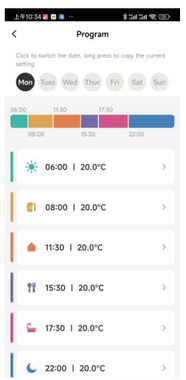
App operation interface instructions (Wireless transmitter)



More setting



Setting



Programming

Simple exception handling

Wireless controller		
No.1	Phenomenon	Handling
1	No pairing indicator on transmitter panel and indicator lamp is off	Check for the pairing icon and verify if it is blinking
2	Phone APP inoperable for control	Check if the gateway is working properly
3	Ambient temperature displayed differs from actual room temperature	Adjust temperature offset via Item 1 in Advanced Settings

Service

24-months warranty since date of purchase.Service beyond the warranty period may need charge. More details, please contact us.

Scan the QR code to watch the operation video

Operation Video

Hub Setup & Pairing