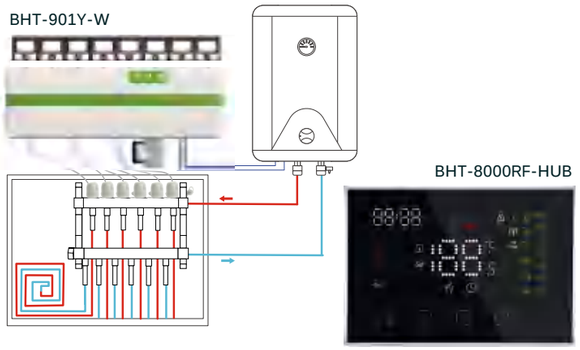
Smart Wireless Hub And Controller



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;

About your controller and hubs

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 BHT-901Y-W wireless hub supplies 220V power for up to 8 thermal actuators with safe and easy wiring. It features zoning control LED indication for straightforward working status inspection.

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.Ultra-low power consumption.
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.

Wireless Hub:

On Appearance

1.Safe and convenient wiring design.
2.Clearly labeled controls and indicators for easy operation and status monitoring.

On Function

1.Wireless transmission range of up to 50 m (164 ft), even through up to three walls.
2.Dual-app support:
The Thermostat App is used to configure thermostat settings and room parameters.
The Hub App allows users to monitor actuator status, enable cloud-priority control, activate the 7-day anti-scale function, and view the real-time status of each output channel.

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:

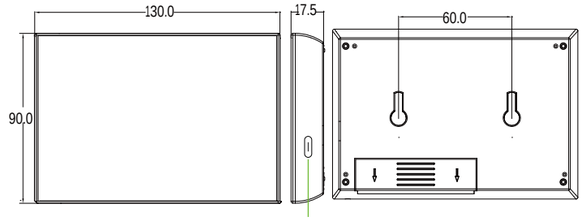
LED Panel power supply	Battery Powered	**Temperature control accuracy**	0.5℃
Temp. Error	±1℃	**Sensor**	NTC3950,10K
Timing Error	<1%	**Set Temp. Range**	5～35℃
Working Ambient Temp/ Humidity	0～45℃, 5～95% RH (Non Condensing)	**Power consumption**	<1.5W
LED Panel Material	PC+ABS (Fireproof)	**Receiver Installation**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

Wireless Hub:

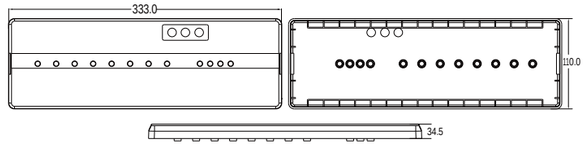
Hub operating voltage	95~230V 50/60Hz	**Water pump output current**	95~230V, Max10A
Actuator output current	95~230V, Max5A	**Environment humidity**	5~95% No condensation
Boiler output current	95~230V, Max10A	**Shell Material**	PC+ABS

Dimension Unit: (mm)

Wireless controller

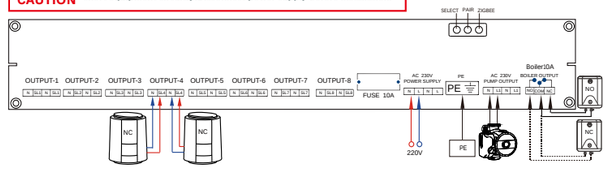


Wireless Hub:



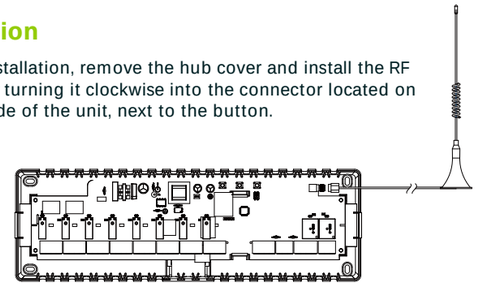
Wiring

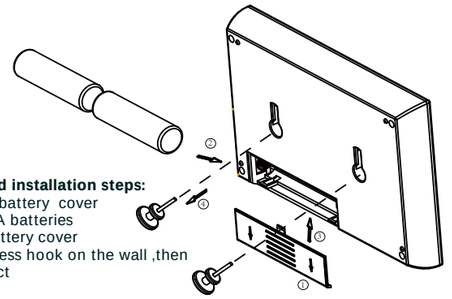
CAUTION Electrical Shock or Equipment Damage Hazard,can shock individuals or short equipment circuitry.Disconnect power supply before installation.



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.

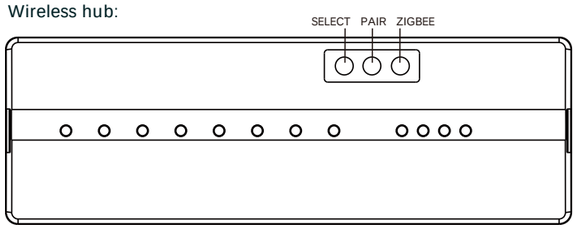




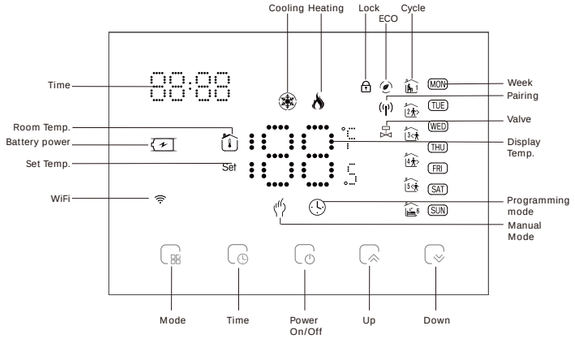
2.Wall-mounted installation steps:
(1) Remove the battery cover
(2) Install two 5A batteries
(3) Install the battery cover
(4) Fix the traceless hook on the wall ,then hang the product

Home Screen Quick Reference

Wireless hub:



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. 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.

5. 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

6.Lock: Long press / to lock the transmitter panelLong 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

Wireless Hub Operating Instructions

1. Short press SELECT: Channel 1 LED blinks by default; cycle through Channels 1~8 to select the target pairing channel, while corresponding LED flashes rapidly.When in pairing progress, short press SELECT to exit pairing mode and return to channel selection.

2. Short press PAIR: While the LED flashes rapidly, first short press PAIR to start pairing; the LED switches to slow flash with a maximum 10-minute waiting period.Short press PAIR a second time during ongoing pairing to exit the pairing process.

3. Press and hold ZIGBEE for more than 8 seconds: Long-press ZIGBEE for more than 8 seconds to start network pairing; LEDs of pump and boiler flash simultaneously at high frequency.

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).

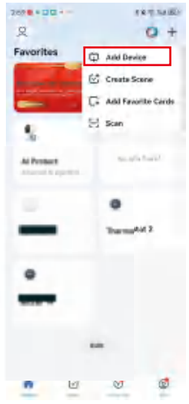


Fig 2.1



Fig 2.2



Fig 2.3



Fig 2.4



Fig 2.5

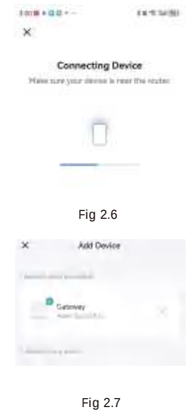


Fig 2.6

Fig 2.7

Network distribution mode

Adding a hub and controller to a Zigbee gateway :

Hub: Long press the ZIGBEE key for over 8 seconds to start hub network pairing; the LEDs of pump and boiler flash rapidly in sync. Follow steps below to add the hub device on the gateway (Fig.2.7-Fig.2.11).

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

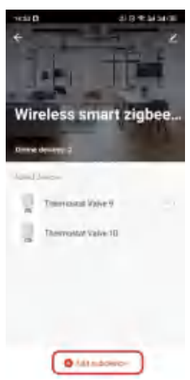


Fig 2.10



Fig 2.11



Fig 2.12

App operation interface description (Wireless hub)

After successful device addition, the page automatically switches to the Hub interface. The Hub activates the corresponding room thermostats, and the associated channel LEDs remain steadily lit.

APP Priority Control: Once enabled, devices can only be operated via the mobile APP; local control on thermostats is disabled (See Fig.2.14). This prevents accidental manual triggering for worry-free out-of-home use.

7-Day Descaling Function: The system automatically cleans installed thermal actuators every seven days, with each cleaning cycle lasting 5 minutes.

Binding Status: Check the binding status of all 8 channels directly on the APP interface.

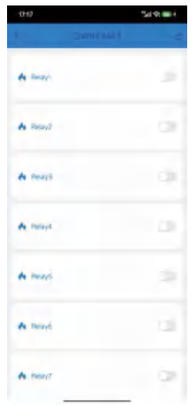


Fig 2.13

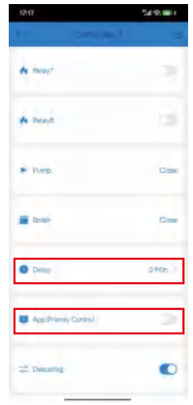


Fig 2.14

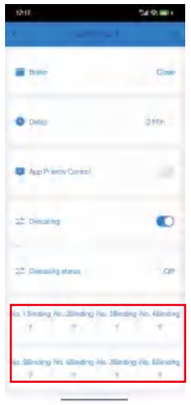
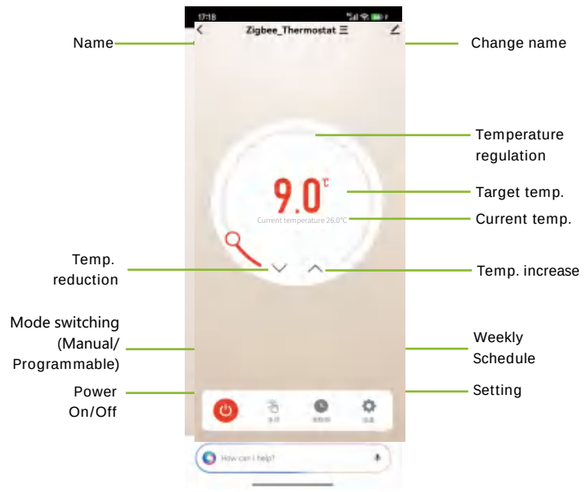


Fig 2.15

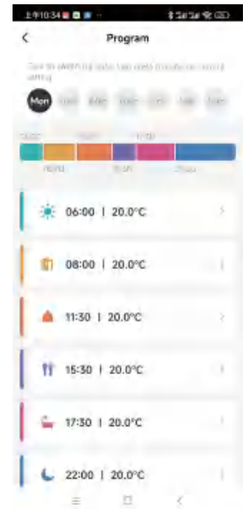
App operation interface description (Wireless controller)



More Setting



Setting



Programming

Simple Exception Handling

Wireless Hub		
No.1	Phenomenon	Handling
1	Power Indicator Off	Check if all wiring connections are secured properly
2	Pump & Boiler Fail to Activate	Check whether Channels 1 to 8 are enabled
3	LED indicators for Channels 1~8 are off	Check whether the transmitter panel is in heating mode
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