

Wireless RF Smart Thermostat for Wall-Mounted Boilers



Version:1.0 (20240920) 71.04.00570

High-power radio frequency signal for sub-1G communication.

• Safety Instructions

This device is for controlling heating systems. For heating systems only. Keep away from high heat and humidity. Use compatible Type-C adapters and check cables for damage. If batteries overheat or leak, stop using it and reach out to a professional. Don't disassemble or repair it yourself.

Our products comply with the following regulations:
 ☉ CE conformity (RED, LVD, EMC).
 ☉ RoHS conformity.

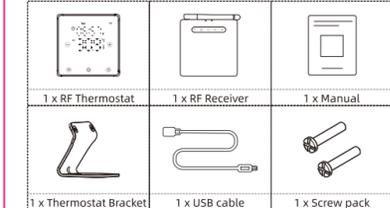
• Access the online Instructions



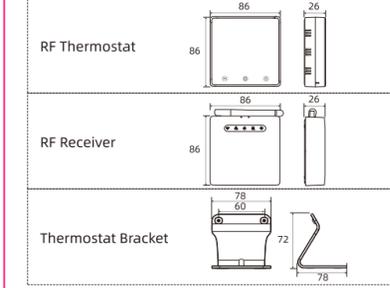
Scan the QR code to get product manuals, videos and more information.

Important Note: This product must use LR6 alkaline batteries. It is recommended to choose new, high-quality batteries and regularly check the battery level to ensure it meets temperature control needs. When the device or app shows a low battery, please replace the batteries as soon as possible. Battery life may vary by brand, and according to lab tests, it can last from 4 to 7 months.

• Standard Accessories



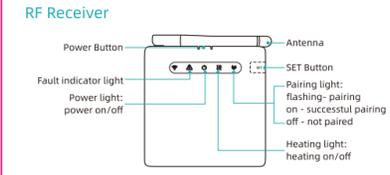
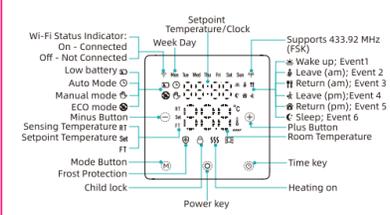
• Dimensions: (Unit: mm)



• Technical Parameters

RF Thermostat	
Power supply	3x1.5V alkaline AA batteries USB/ power supply (Type-C interface)
Temperature setting range	5~95°C
Environmental temperature	-5~50°C
Temp measurement precision	0.1°C
Transmission Range	≤200m in open areas indoors
Protection level	IP20
Wireless frequency	433.92 MHz (FSK)
RF receiver	
Power Voltage	AC100~240V/50/60Hz
Power consumption	1W max
Ambient temperature	-5~50°C
Transmission Range	≤200m in open areas indoors
Wireless Frequency	433.92 MHz (FSK)

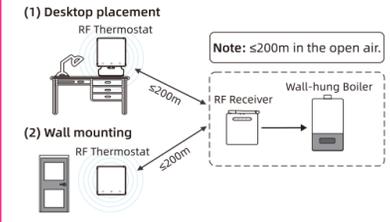
• Product Overview



This system uses a thermostat to compare the set temperature with the room temperature to determine whether to turn the boiler on or off. The receiver is mounted on the wall and connects to the existing wall wiring to control the boiler. With this system, you can adjust the room temperature anytime, anywhere.

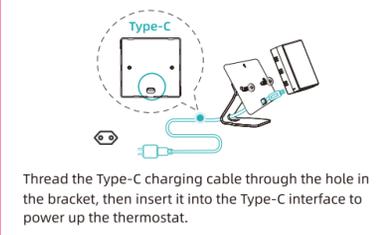
• Installation Method

- There are two main methods for installing the RF thermostat.
- The distance between the thermostat and the receiver should not be more than 200 meters. (The maximum distance depends on the actual network conditions.)



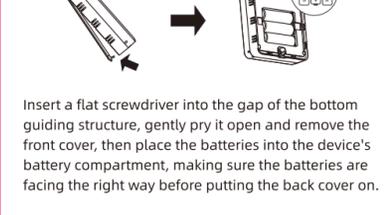
1. Powering the RF Thermostat
 Our thermostat has two power sources, and we recommend using both power sources at the same time.

(1) USB Power Supply (Type-C Interface)



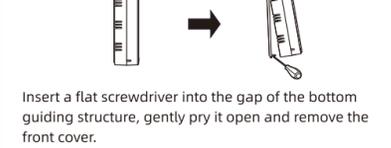
Thread the Type-C charging cable through the hole in the bracket, then insert it into the Type-C interface to power up the thermostat.

(2) 3 x 1.5 V alkaline AA batteries



2. Installation steps for the RF thermostat

(1) Placing on a desktop

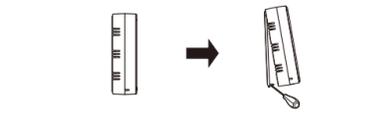


Please use two installation screws to attach the back cover to the thermostat bracket.

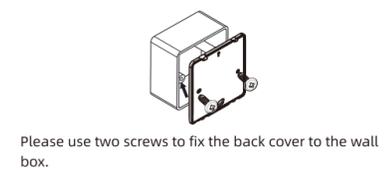


Reconnect the front cover to the back cover, secure it using the clips, and ensure it is properly installed.

(2) Wall Mount Installation



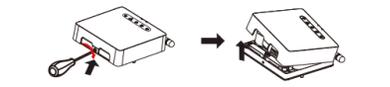
Insert a flathead screwdriver into the gap in the bottom guide, gently pry it loose, and remove the front cover.



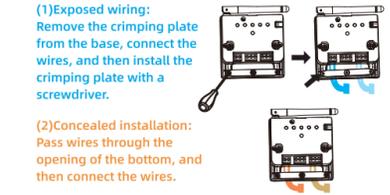
Please use two screws to fix the back cover to the wall box. Reconnect the front cover to the back cover with the clips, and ensure it is properly installed.

3. Steps for Installing the RF Receiver

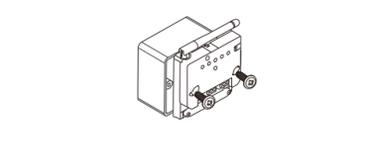
Wall Mount Installation
 First, confirm the type of screws at the bottom. After unscrewing the screws, use the right screwdriver to carefully pry open the gap in the bottom guiding structure, and then remove the front cover.



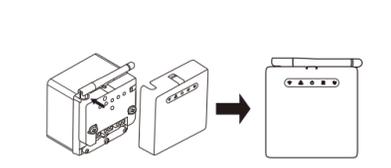
Connect the wires to the terminals according to the wiring diagram. You can choose from the following wiring options.



Reconnect the front cover to the back cover with the clips, and ensure it is properly installed.

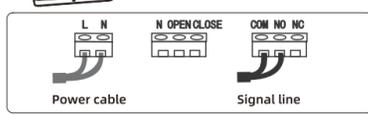


Once the terminal wiring is done, Please use two screws to fix the back cover to the wall box.



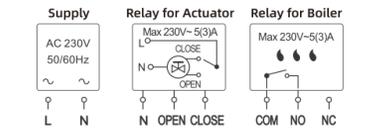
Reconnect the front cover to the back cover with the clips, and ensure it is properly installed.

4. Wiring diagram for the RF receiver



Below 2500 meters, the thermostat runs at full capacity. Between 2500 and 4200 meters, the external load's rated power must not exceed 80% of the thermostat's rated power.

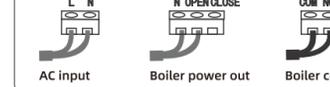
• Safety Alert: Important Notice



Unpowered Wiring Diagram

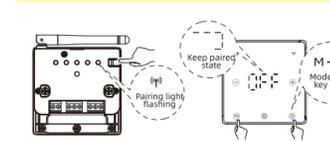


Powered Wiring Diagram



5. Steps for pairing the thermostat kit

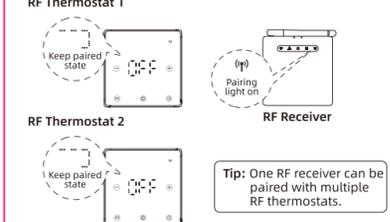
Attention: Your thermostat set is pre-paired and ready for use. If no additional receiver pairing is required, you may proceed to the next section.



Receiver: When powered on, press and hold the "SET" button for 3 seconds; the pairing indicator light "Ⓜ" will start flashing, and the receiver will enter pairing mode.

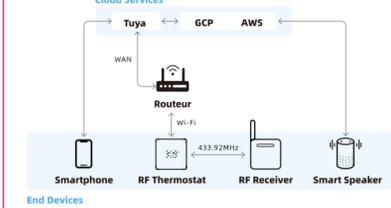
Temperature controller: When powered off, press the "Ⓜ" button and the "Ⓜ" button for 3 seconds, and the temperature controller will enter pairing mode.

When the receiver beeps once and the pairing indicator light "Ⓜ" is solid, pairing is successful.



The data from thermostats isn't syncing. If temperature settings are inconsistent, the system will prioritize heating mode, overriding the off setting. To turn off heating completely, set all thermostats to off and check each one for optimal performance.

• Software Installation



1. Download the Smart Life app



Scan the QR code above or search for "Smart Life" in the App Store and Google Play to download the Smart Life app.

2. Re



Go to the registration/login interface; tap "Register" to create an account by entering your email address to get a verification code and "Set password". Select "Sign in" if you already have a Smart Life account.

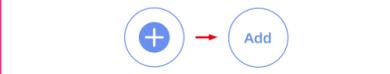
3. Add a Device

Press the "Power Button" shortly to switch to OFF mode, then hold down the "Time Button" for over 3 seconds until the "Ⓜ" flashes, showing that the device is now in network configuration mode.



Attention: Please turn on your phone's Bluetooth and Wi-Fi in advance. And make sure that the smartphone operating system allows the Smart Life app to access the Bluetooth.

- Open the app's "Home" interface, click on "+" in the upper right corner and select "Add Device".
- The system will automatically search and find the device, then click "Add".



- Select 2.4G Wi-Fi and enter the password, click "Next".
- Wait for a while for the device to be successfully added, then click "Done" to complete the installation.



• Software Installation

Power On/Off
 Press the power button "Ⓜ" briefly to turn the thermostat on/off.

Time Settings
 Hold the time key "Ⓜ" for over 3 seconds to access time settings. Press to choose what to change, then use "+" and "-" to set the day and time, and press "Ⓜ" to save.

Temperature Setting
 Press "+" or "-" to adjust the temperature by 0.5°C.

Child Lock
 Press and hold the "+" and "-" keys simultaneously for more than 3 seconds to activate the child lock to lock the thermostat. Pressing these two keys again will deactivate the child lock.

Temperature Control Mode
 Press "Ⓜ" to toggle between manual and automatic modes.
 • Manual Mode: This mode stays active until you make another manual change based on the current temperature set by "+" or "-".
 • Automatic Mode: Controls the temperature based on the scheduled heating settings. Manual changes will be temporarily applied until the next temperature event changes (displayed on the screen as "Ⓜ"). After that, the pre-set heating events will reactivate.

Weekly programming settings

Set up to six heating events per day for weekdays and weekends with separate temperature settings. Hold the mode button "Ⓜ" for over 3 seconds to enter weekly programming settings, then follow the steps to adjust. Press the mode button "Ⓜ" to modify items, use "+" and "-" to set the day and time, then press the power button "Ⓜ" to confirm.

Events	Symbols	Time		Temperature	
		Default value	Modify	Default value	Modify
Weekdays	1	☀	06:00	20°C (68°F)	Press "+", "-" or "Ⓜ"
	2	☀	08:00	15°C (59°F)	
	3	☀	11:30	15°C (59°F)	
	4	☀	12:30	15°C (59°F)	
	5	☀	17:00	22°C (72°F)	
	6	☀	22:00	15°C (59°F)	
Weekends	1	☀	08:00	15°C (59°F)	Press "+", "-" or "Ⓜ"
	2	☀	22:00	15°C (59°F)	

Backlight control
 • This feature is only available when the device is powered by USB; it cannot be activated without a USB power connection.
 • Hold the power button "Ⓜ" for over 3 seconds to enter backlight control settings, then follow the steps to adjust.
 • Press "Ⓜ" to select a setting. Use "+" and "-" to adjust time and brightness. Press "Ⓜ" to save.

ECO mode

Press the time button "Ⓜ" to enter Eco mode, which sets the temperature to 18°C.

Pairing Mode
 In OFF mode, press and hold "Ⓜ" and "Ⓜ" for over 3 seconds to pair.

Wi-Fi Setup
 In OFF mode, long press the time button "Ⓜ" for over 3 seconds to enter Wi-Fi setup and add the thermostat in the Tuya app/Smart Life app.

Low Battery Reminder
 Battery icon "Ⓜ" lights up below 20%, indicating replacement needed. Firmware upgrades disabled below 50% battery.

2. RF Receiver Instructions

Features	Steps	Status Display
Power On/Off	Press the "Power Button" quickly	"Ⓜ" light: on or off
RF Pairing	During startup, press the "SET Button" for over 3 seconds	"Ⓜ" light: on; "Ⓜ" light: blinking quickly
RF Pairing Successful	/	The buzzer beeps and the "Ⓜ" pairing indicator light is on.
Forced Output	During power-on, press "Power key" for 3 seconds	"Ⓜ" light: on; "Ⓜ" light: blinking
Restore Factory Defaults	During power-off, press "Power key" for 3 seconds	The four indicator lights "Ⓜ" "Ⓜ" "Ⓜ" "Ⓜ" flash at the same time once

3. RF Thermostat Advanced Settings

In OFF mode, press and hold the mode key "Ⓜ" for more than 3 seconds to enter advanced settings. Then, briefly press the mode key "Ⓜ" to switch between settings, and finally, press the "Ⓜ" briefly to confirm your settings.

Setting Code	Setting Code Meaning	Setting Range (Press "+" or "-" Key)	Default Value
01	Temperature Calibration	-9.9~9.9°C	0°C
02	Switch Offset	0.5~10°C	0.5°C
03	Temperature Upper Limit	5~95°C	50°C
04	Temperature Lower Limit	5~47°C	5°C
05	Frost Protection	ON: Frost Protection On OFF: Frost Protection Off	OFF
09	Weekly Programming Settings	12345: 5-Day/2-Weekend Mode 123456: 6-Day/1-Weekend Mode 1234567: 7-Day/0-Weekend Mode	12345
19	Reset to Factory Settings	In the factory reset menu, press and hold the "+" button for more than 3 seconds.	/

• Voice Control

The voice control content is as follows, you can say:

Amazon Alexa: Alexa,	Google Assistant: OK google,
Set the DEVICENAME to on	What mode is the DEVICENAME set to
Set the DEVICENAME to off	What temperature is the DEVICENAME set to
Set the DEVICENAME to auto	Set the DEVICENAME to 26 celsius
What is the temperature of DEVICENAME	Decrease DEVICENAME temperature
Set DEVICENAME to 26 celsius	Increase DEVICENAME temperature
Decrease DEVICENAME temperature	Turn on DEVICENAME
Increase DEVICENAME temperature	
Turn on DEVICENAME	

Attention: "DEVICENAME" is the name of the device and can be renamed. The temperature units for the device and the smart speaker must be consistent.