RF SMART THERMOSTAT

Wi-Fi Thermostat

Super strong RF signal for sub1G Communication

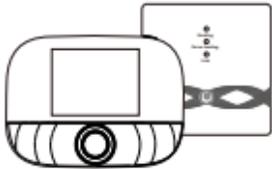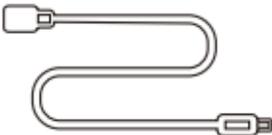**Powered by**
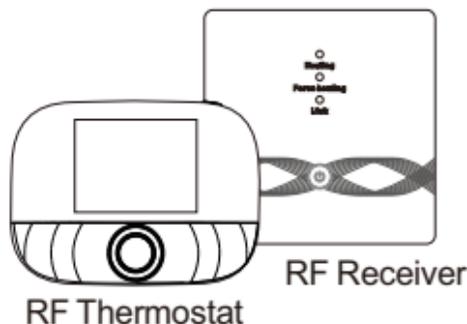
tuya

Sub-1GHz

WORKS WITH
Amazon Alexa

WORKS WITH
Google Assistant

English

Standard accessories

| Product	USB wire	Screw pack	Manual

Product overview

This set is suitable for wall–hung boiler temperature control. As long as you install the RF receiver device near the wall–hung boiler, even if the RF thermostat is placed in the living room or room (with an open distance of 200 meters), the RF receiver can be controlled by the RF thermostat.
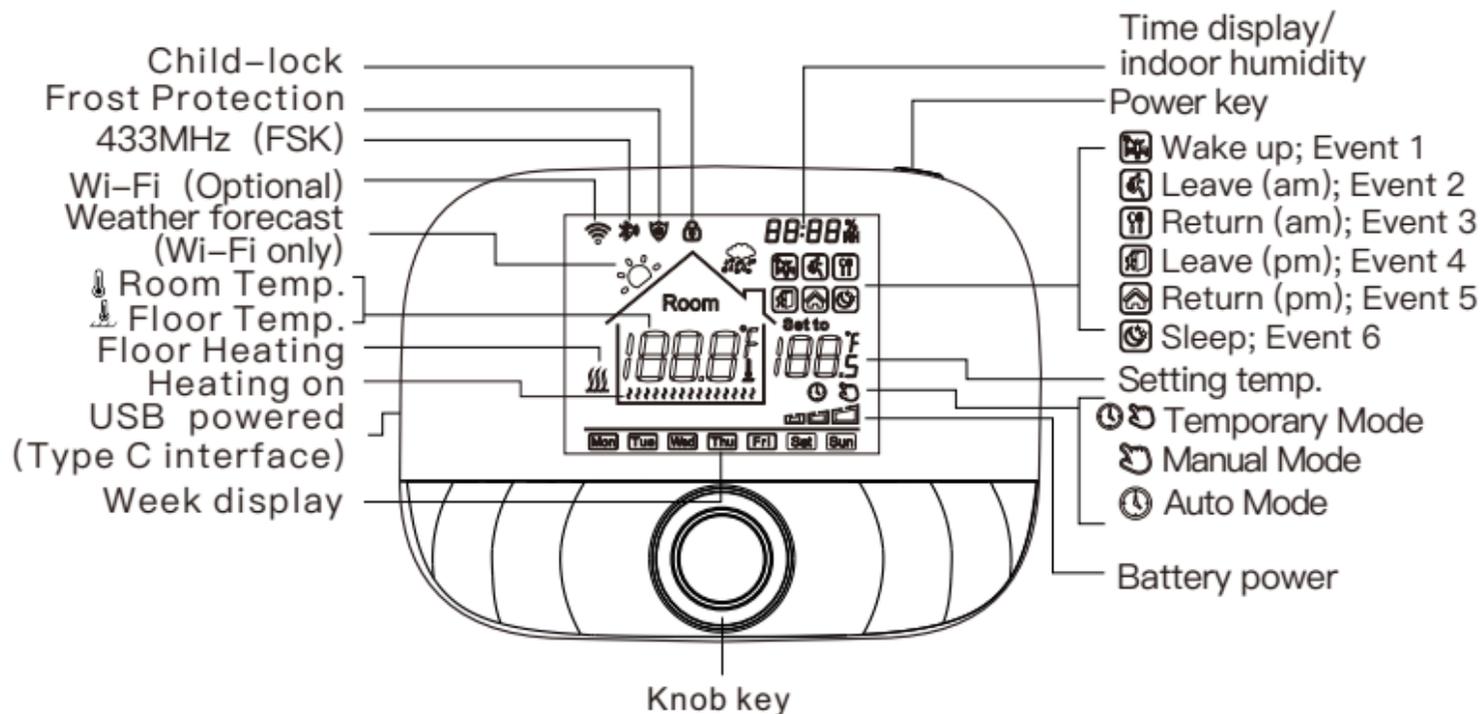
RF Thermostat

RF Receiver

Product overview

[RF Thermostat]
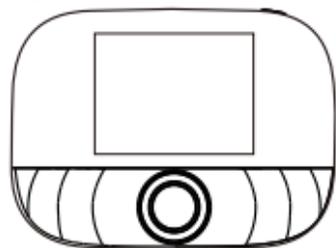
Power supply	2 x 1.5 V alkaline AA batteries / USB powered (Type C interface)
Temp. setting range	5~95℃
Operation temperature range	−5~50℃
Measurement accuracy	0.1℃
Setting temp. accuracy	0.5℃
Transmission distance	≤200m in the open air
Protection level	IP20
Wireless frequency	433MHz（FSK）/ 433MHz（Bidirectional FSK）

[RF Receiver]
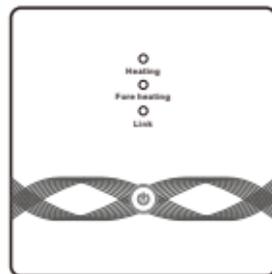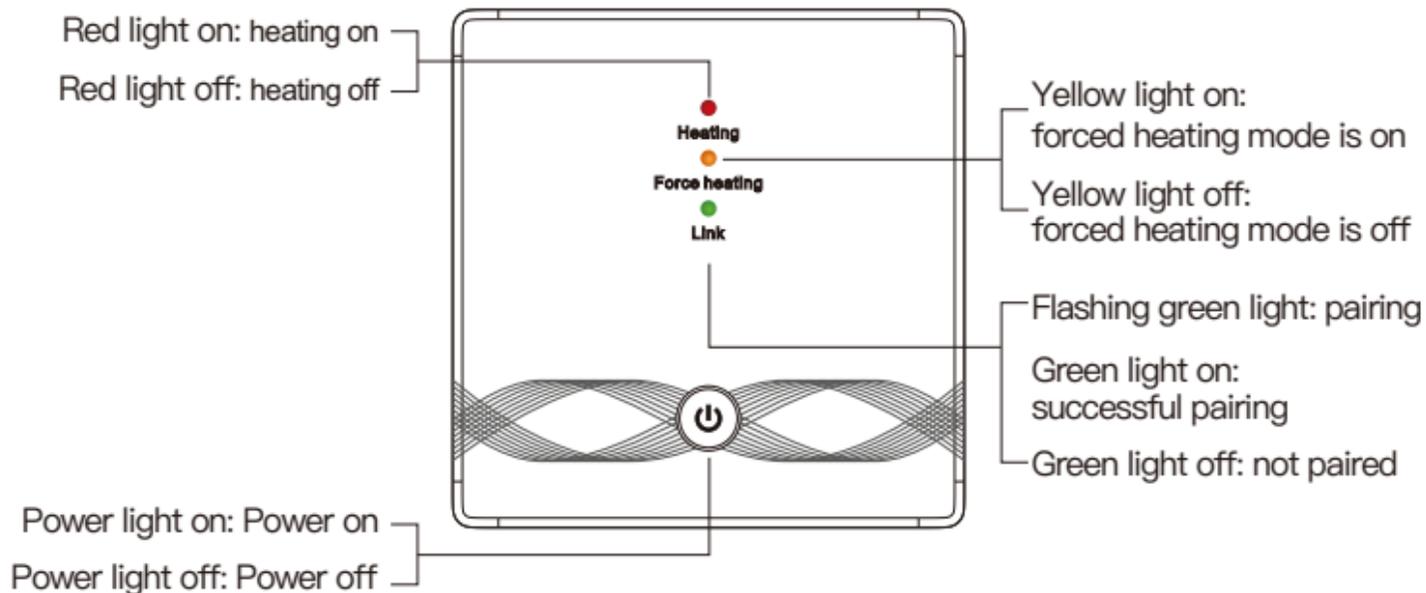
Power supply	AC100~240V；50/60Hz
Device power consumption	1W Max
Operation temperature range	−5~50℃
Transmission distance	≤200m in the open air
Wireless frequency	433MHz（FSK）/ 433MHz（Bidirectional FSK）

Display symbols

[RF Thermostat]

Child-lock
Frost Protection
433MHz (FSK)
Wi-Fi (Optional)
Weather forecast (Wi-Fi only)
Room Temp.
Floor Temp.
Floor Heating
Heating on
USB powered (Type C interface)
Week display

Time display/ indoor humidity
Power key
Wake up; Event 1
Leave (am); Event 2
Return (am); Event 3
Leave (pm); Event 4
Return (pm); Event 5
Sleep; Event 6
Setting temp.
Temporary Mode
Manual Mode
Auto Mode
Battery power

Knob key

Display symbols

[RF Receiver]

Red light on: heating on
Red light off: heating off

Heating

Yellow light on:
forced heating mode is on

Force heating

Yellow light off:
forced heating mode is off

Link

Flashing green light: pairing

Green light on:
successful pairing

Green light off: not paired

Power light on: Power on
Power light off: Power off

[RF Thermostat]

Function	Steps
Power on/off	Press "power key" shortly to turn on/off the thermostat.
Auto–mode	Press "knob key" for 3 seconds to edit auto–mode settings.
Temp. control mode	Press "knob key" shortly to switch manual/auto mode.
Temp. setting	Rotate "knob key" to change setting temperature by 0.5℃.
Child–lock	Press "knob key" + "power button" for 3 seconds to activate child–lock.
Time setting	Press "power key" for 3 seconds to set time.
Backlight Control	After plugging in the Type–C USB cable, in the power–on state, press "power key" fastly twice to backlight control setting.
Pairing mode	Under power–off, press "knob key" + "power key" for 3 seconds To pair modes.
Wi–Fi setting	Under power–off, press "power key" for 3 seconds to Wi–Fi setting.
Low power reminder	When the voltage is less than 2.3 V, the small icon of battery power flickers, it is recommended to replace the new battery as soon as possible before use.

Auto–mode setting

Press "knob key" for 3 seconds to edit auto-mode settings.

Events		Symbols	Time		Temperature	
			Default	Modify	Default	Modify
Workdays	1	🛏️	06:00	Rotate knob	20℃ (68℉)	Rotate knob
	2	🏃	08:00		15℃ (59℉)	
	3	🍴	11:30		15℃ (59℉)	
	4	🚶	12:30		15℃ (59℉)	
	5	🏠	17:00		22℃ (72℉)	
	6	☾	22:00		15℃ (59℉)	
Weekends	1	🛏️	08:00		20℃ (68℉)	
	2	☾	22:00		15℃ (59℉)	

RF Thermostat advanced setting (Usually for Professional Technicians)

Under power–off, press "knob key" for 3 seconds to enter advanced setting mode, then repress "Knob key" to switch to next mode. Press "power key" to save and exit advanced setting mode.

RF thermostat advanced setting (Usually for professional technicians)   English

Code	Meaning	Knob key " ◎ "	Default value
01	Temp. calibration	–9.9~9.9℃(–9~9℉)	–1℃
02	Temp. Dif.	0.5~10℃(1~10℉)	±1℃
03	Temp. upper limit	5~95℃(41~199℉)	50℃
04	Temp. lower limit	5~47℃(41~117℉)	5℃
05	Frost protection	ON: frost protection on OFF: frost protection off	OFF
06	Temperature unit	℃/℉	℃
09	Weekly programming setting	12345: 5/2 week mode 123456: 6/1 week mode 1234567: 7/0 week mode	12345
12	Child–lock	00: Child–lock inactivate when screen off; lock all when child–lock activate 01: Child–lock activate when screen off; lock all when child–lock activate 02: Child–lock activate when screen off; lock all except Fan Speed, Up and Down when child–lock activate 03: Child–lock activate when screen off; lock all except Power on/off when child–lock activate	00
13	Power–on–reset	00: Power OFF 01: Power ON 02: The last status before power loss	02
19	Reset	Press "◎"for 3 seconds to reset	/

RF receiver operating instructions

Function	Steps	Display state
Power on/off	Press " ⏻ " shortly	Power light is always on/off
Pairing	Under power–off, press " ⏻ " for 3 seconds	" ● " Green flashes quickly
Distribution network is successful	\	Buzzer beeps + " ⏻ " light is on + " ● " green light is on
Forced output	Under power–off, Double click the " ⏻ "	" ● " Red light on + " ● " yellow light on
	Short press " ⏻ " to exit the forced output and return to the shutdown state	The " ⏻ " light goes out
Reset	Under power–off, press " ⏻ " for 3 seconds, After the green light flashes " ● ", double–click the press " ⏻ " again	" ● ● ● " lights flash once at the same time
External probe temperature limit temp setting	When powered on, press " ⏻ " for 3 seconds	" ⏻ " Power light flashes (No temperature limit, Default value)
	When the power light is flashing, short press " ⏻ " once	" ⏻ " Power light is flashing + " ● " green light is on(30℃ temperature limit)
	When the power light is flashing, short press " ⏻ " twice	" ⏻ " Power light is flashing + " ● " yellow light is on(40℃ temperature limit)

| Function	Steps	Display state
External probe temperature limit temp setting	When the power light is flashing, short three times press " 🔵 "	" 🔵 " Power light is flashing + " 🔴 " red light is on(55℃ temperature limit)
	When the power light is flashing, Long press " 🔵 " for 3 seconds	Save and exit External sensor temperature limit temperature setting

Dimensions (Unit: mm)

RF Thermostat

118

24

86

RF Receiver

86

26

86

Heating
Force heating
Link
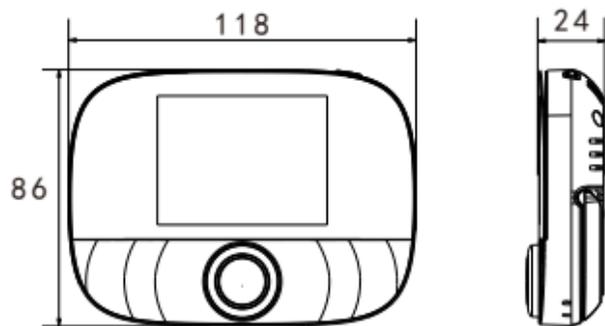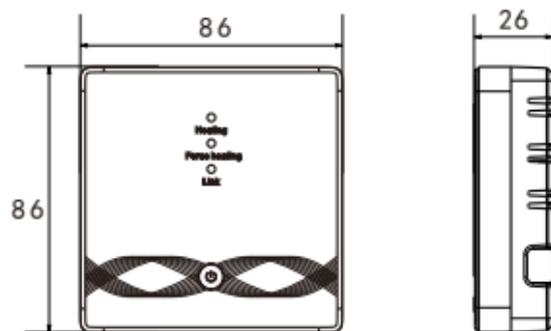
Installation iocation

The installation distance between the thermostat and the receiver does not exceed 200m (the distance can be judged according to the actual network coverage)

Tip: There are many ways to install the RF thermostat, ①wall mounting ②desktop placement

① wall mounting
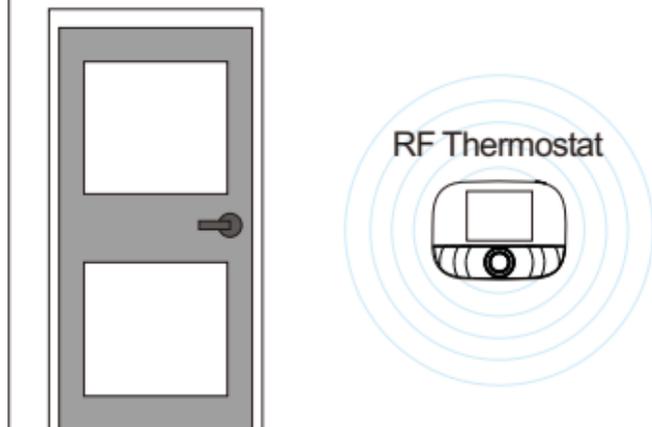
② desktop placement

RF Thermostat
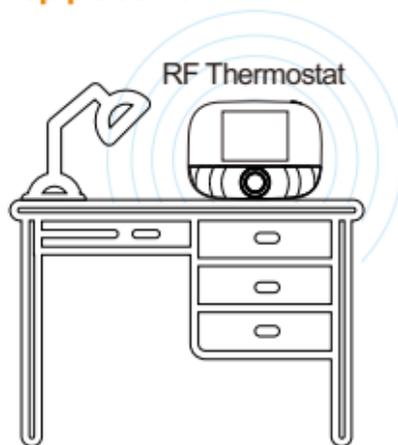
RF Thermostat

RF thermostat mounting steps.

① 2 x 5 Alkalibatterien   * Note: ① It is recommended to use brand new 1.5 V alkaline AA batteries.
② Please ensure the correct polarity when installing the battery.
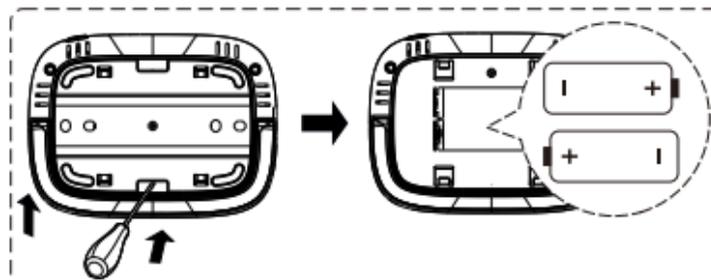
1) Insert a screwdriver into the notch on the back of the thermostat, pry open the base and panel frame, and then put the battery into the battery compartment of the device;

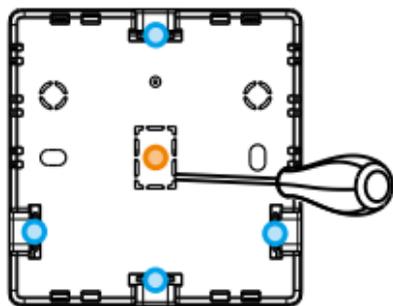2) After inserting the battery, close the back cover to complete the installation.

② USB powered (Type–C interface)
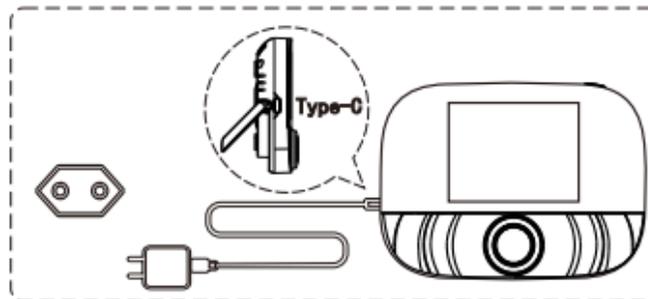
Use Type–C cable to power or the device
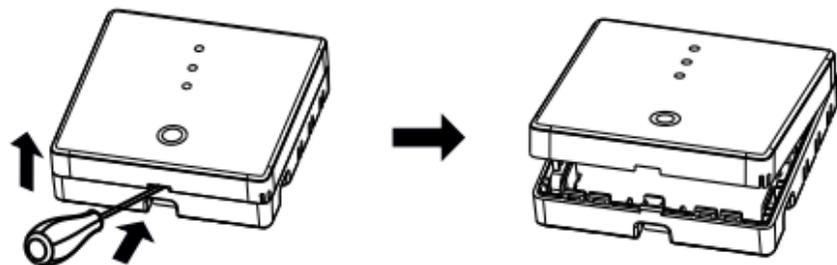
1) Release front cover by inserting a head screw-driver into bottom crack.

2) The wiring method can be chosen by yourself.

(① **Exposed wiring:** choose any one of the four directions, then use a flat-blade screwdriver to pry open along the dotted line; ② **Concealed installation and routing:** along the dotted line in the middle of the bottom shell, use a flat-blade screwdriver to pry open)

RF receiver wiring diagram

The thermostat operates in full capacity in areas with the altitude of less than 2500 above sea level. Power rating of external load should be less than or equal to 80% rated power of the thermostat in areas with altitude of 2500m to 4200m.

CLOSE 1
OPEN 2
COM 3

3A Max

Boiler

Potential–free
Output for Boiler

Actuator

Electric Heating

16A
Max
load

AC100~240V
50/60Hz

4 N1
5 N
6 L
7 L1
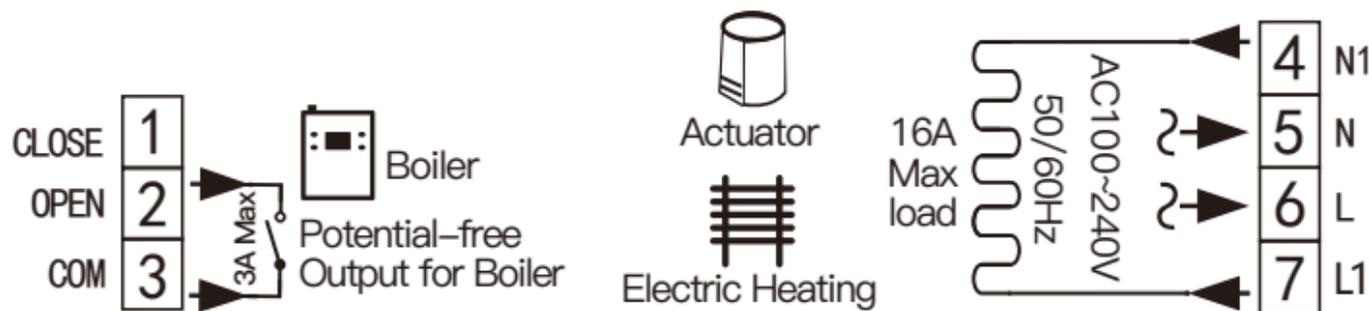
Output (N1 , L1) is for :
① Thermal Actuator
② Electric Heating product

3) Put the wire into the terminal and tighten it with a flat– blade screwdriver. After tightening the terminal screws, cover the upper cover to complete the installation.
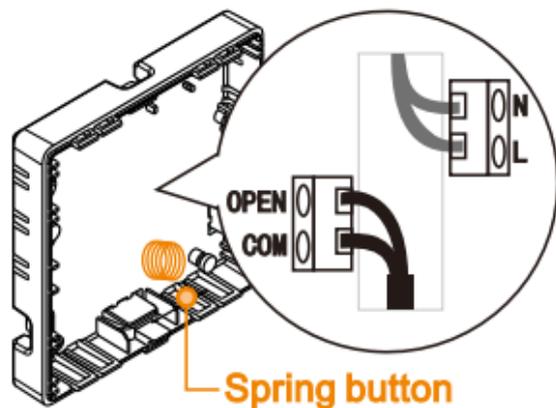
Note: Please ensure that the wire line will not touch the spring button, otherwise it will affect the button touch function
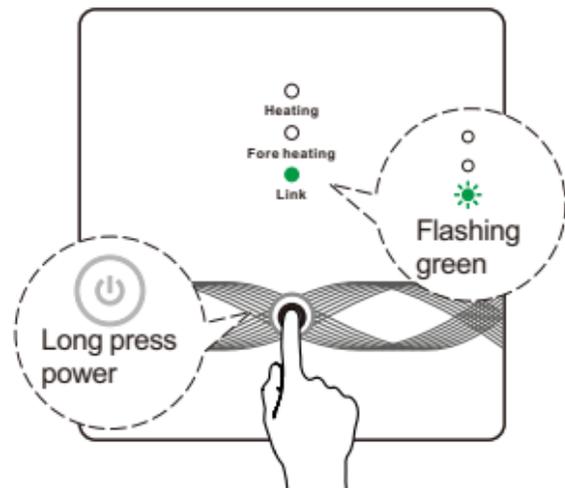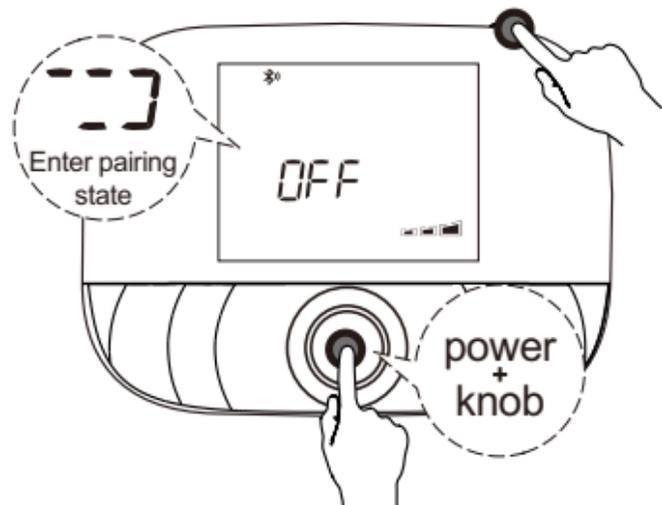
OPEN

COM

N

L

Spring button

Power cable

Signal line

Pairing steps

① Under power–off, press " ⏻ " for 3 seconds, when the green light " 🟢 " flashes, the receiver enters the pairing state..

Heating
Fore heating
Link

Flashing green

Long press power

② Under power–off, press " **power key** " + " **knob key** " for 3 seconds, the thermostat enters the pairing state.
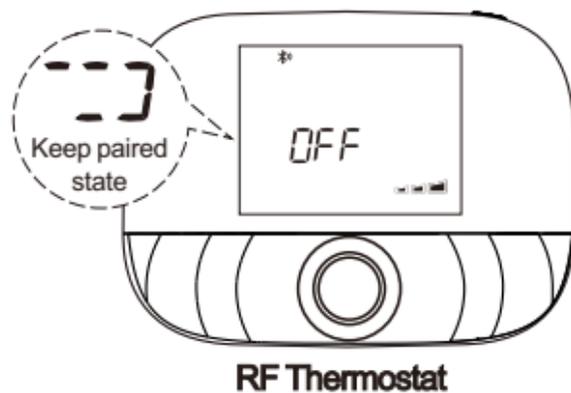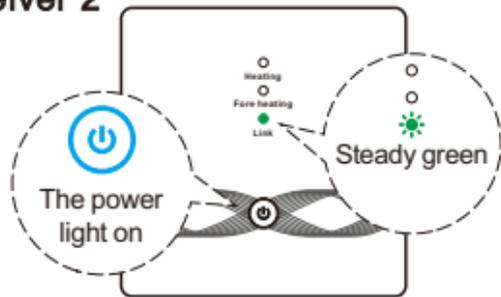
Enter pairing state

OFF

power + knob

③When the receiver's buzzer beeps once, and the power light " 🔵 " + the green light " 🟢 " are always on, the pairing is successful.

RF Receiver 1

The power light on

Heating
Fore heating
Link

Steady green

Keep paired state

OFF

RF Thermostat

RF Receiver 2

The power light on

Heating
Fore heating
Link

Steady green
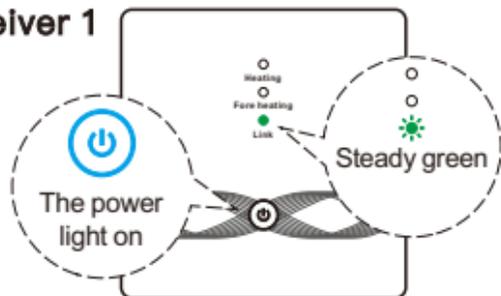
Tips: One RF thermostat can be paired with multiple RF receivers. After they are paired, please shortly press the "Power" key to exit the pairing mode.
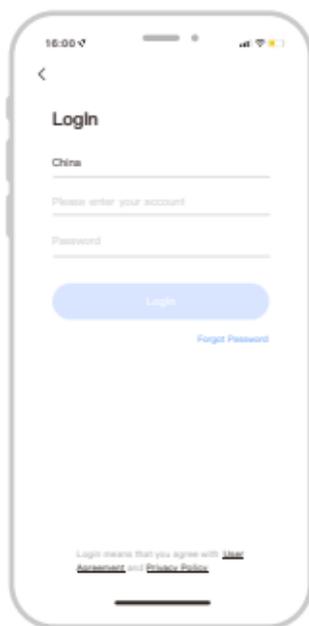
APP remote control and voice control

Smart Speaker

Smartphone

Wi-Fi Router

RF Thermostat

433MHz

RF Receiver

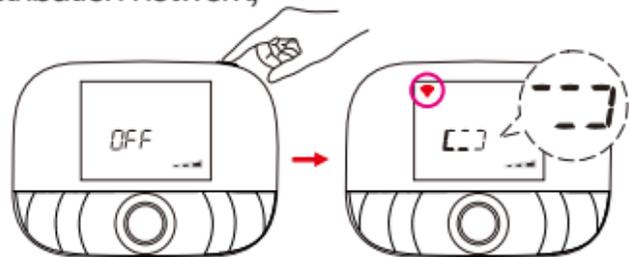# Network configuration （Wi-Fi only）

Download Smart Life APP

Scan the QR code above or search "Smart Life" on App Store and Google Play to download the Smart Life APP.
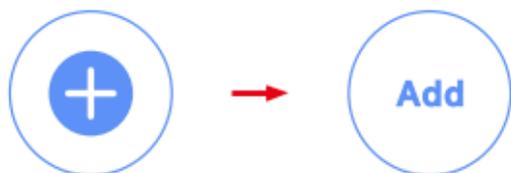
Wi–Fi setting （Wi–Fi only）

① In the OFF state, long press the "power button" for 3 seconds, when the screen flashes " ⌐⌐⌐ " and " 📶 ", the thermostat Enter the state of distribution network;

② Enter the " **Home** " interface of the APP, click " ➕ " in the upper right corner, select the " **Add** " button in the pop–up window, and finally click " ➕ " to enter the Wi–Fi password interface;

*Please turn on the Bluetooth of your phone in advance.

③ Select 2.4G Wi–Fi and enter the password, click "**Next**" , and then wait for the connection to succeed.

④ After the addition is successful, click "**Done**", and the wifi smart thermostat has been added successfully.

Voice control （Wi–Fi only）

After waking up the speaker, you can say:

Amazon Alexa : Alexa,
* Turn on the HEATER
* Turn off the HEATER.
* Make the HEATER cooler in here.
* Make the HEATER warmer in here.
* What is the temperature of the HEATER?
* Turn on child lock for the HEATER
* Turn off child lock for the HEATER

Google Assistant : OK google,
* Turn on the HEATER
* Turn off the HEATER.
* Set the HEATER to 26 degree
* Drop the HEATER by 1 degree
* Raise the HEATER by 1 degree
* Turn on child lock for the HEATER
* Turn off child lock for the HEATER

*Attention: " HEATER " is the device name, you can also name it yourself.
The temperature unit of thermostat and smart speaker must be identical.