

Desktop Type RF Smart Thermostat for wall-hung boiler

Super strong RF signal for sub1G Communication



English



Version:1.1(12/2023) 71.04.00386

◆ Personalized Scanning Code

Scan the corresponding QR code according to your needs to obtain the content

Manual

- Scan the QR code to obtain the electronic manual in multi-languages.
- Scannen Sie den QR-Code, um das elektronische Handbuch in mehreren Sprachen zu erhalten.
- Escanee el Código QR para obtener un manual electrónico multilingüe.
- Zeskanuj kod QR, aby uzyskać elektroniczną instrukcję w wielojęzycznym skanowaniu.
- двумерных кодов для получения многоязычных электронных руководств.

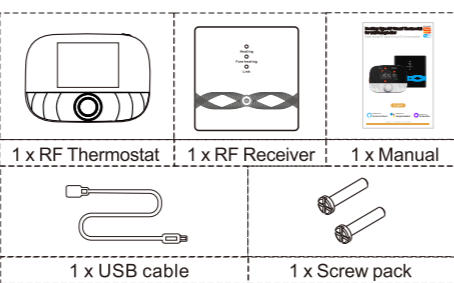
Operation Video

- Scan the QR code to obtain the video of equipment operation steps.
- Scannen Sie den QR-Code, um das Video der Geräteschritte zu erhalten.
- Escanee el Código QR para obtener el video de los pasos de operación del dispositivo.
- Zeskanuj kod QR, aby uzyskać wideo kroków obsługi sprężetu.
- Сканируйте QR-код, вы получаете видео шагов работы устройства.

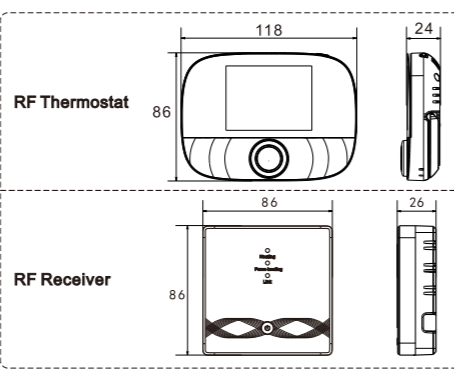
RF Pairing Video

- Scan QR code to obtain RF pairing operation steps video of equipment.
- Scannen Sie QR-Code, um HF-Pairing-Operationsschritte Video der Ausrüstung zu erhalten.
- Escanee el Código QR y obtenga el video de los pasos de operación de emparejamiento de radiofrecuencia del dispositivo.
- Zeskanuj kod QR, aby uzyskać kroki operacyjnej parowania RF wideo sprężetu.
- Сканируйте QR-код и получите видео шагов работы радиочастотной пары устройства.

◆ Standard Accessories



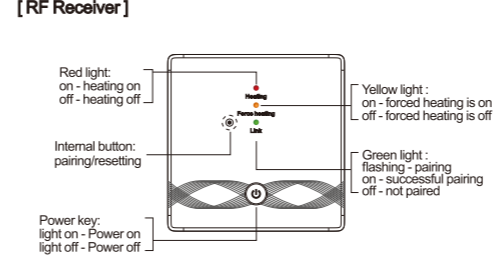
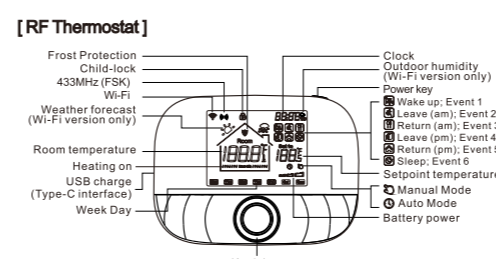
◆ Dimensions (Unit: mm)



◆ Technical specifications

[RF Thermostat]	
Power supply	2 x 1.5 V alkaline AA batteries / USB powered (Type-C interface)
Temp. setting range	5~95°C
Ambient temperature	-5~50°C
Temp. Measurement accuracy	0.1°C
Temp. setting accuracy	0.5°C
Transmission distance	≤200m in the open air
Protection level	IP20
Wireless frequency	433MHz (FSK) / 433MHz (Bidirectional FSK)
[RF Receiver]	
Supply voltage	AC100~240V; 50/60Hz
Power consumption	1W max
Ambient temperature	-5~50°C
Transmission distance	≤200m in the open air
Wireless frequency	433MHz (FSK) / 433MHz (Bidirectional FSK)

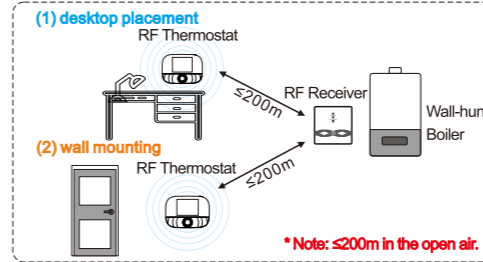
◆ Product Overview



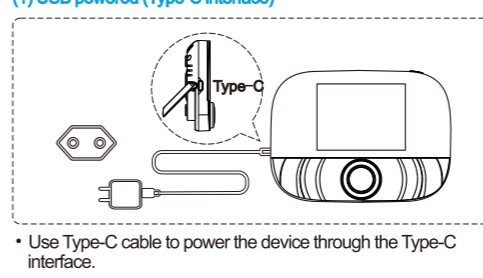
In this set, the thermostat compares the setpoint temperature with the room temperature, and decides if the receiver should switch the boiler on or off. And the receiver is wall-mounted and controls your boiler using existing wall-wires. With this set, you can regulate the room temperature everywhere you reach out.

◆ Installation

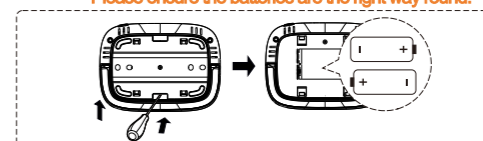
- There are two main ways installing the RF thermostat .
- The installation distance between the thermostat and the receiver does not exceed 200m (the maximum distance depends on the actual network condition)



- ① Power supply for RF Thermostat**
- There are two power supply methods for our thermostat. We suggest using both power supply methods at the same time.

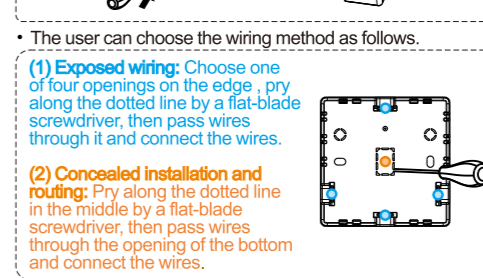


- (2) 2 x 1.5 V alkaline AA batteries**
- * Note: It is recommended to use 2 new LR6 AA batteries. Please ensure the batteries are the right way round.

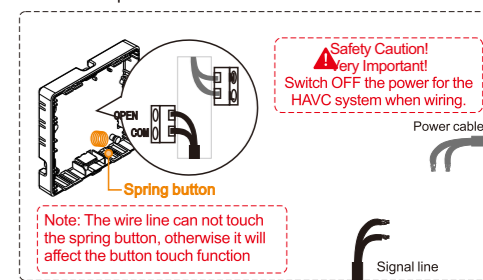


- Release back cover by inserting a head screw-driver into bottom crack, and then put the batteries into the battery compartment of the device;
- After inserting the batteries, reattach the back cover and latch it into place.

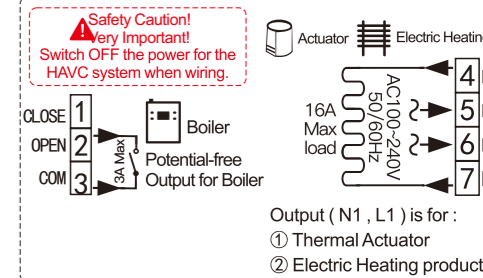
- ② RF Receiver installation steps**
- Release front cover by inserting a head screw-driver into bottom crack.



- Connect wires to the terminal according to wiring diagram. After wiring the terminal , reattach the upper cover and latch it into place.



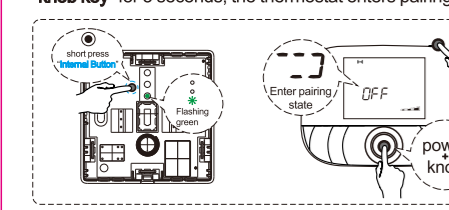
- ③ RF Receiver wiring diagram**
- The thermostat operates in full capacity in areas with the altitude of less than 2500m above sea level. Power rating of external load should be less than or equal to 80% rated power of the thermostat in areas with altitude of 2500m to 4200m.



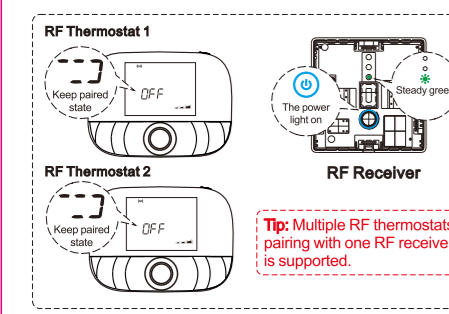
④ Pairing steps of thermostat set

* Note: The thermostat set is already paired in the factory and you can use it directly.

- Receiver:** During power-on, press "Internal Button" shortly, green light "●" flashing, the receiver enters pairing mode.
- Thermostat:** During power-off, press "power key" + "knob key" for 3 seconds, the thermostat enters pairing mode.



- When the receiver's buzzer beeps once, and power light "●" + green light "●" is always on, the pairing is successful.



◆ APP Remote Control And Voice Control (Wi-Fi version only)



◆ Software Installation (Wi-Fi version only)

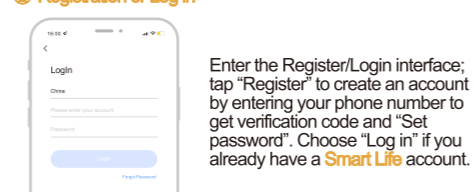
① Download Smart Life APP

Available on the App Store

GET IT ON Google play

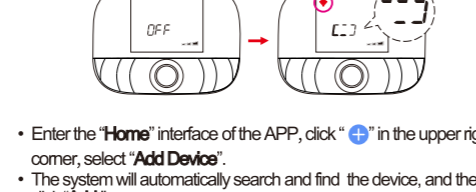
Scan the QR code above or search "Smart Life" on App Store and Google Play to download the Smart Life APP.

② Registration or Log in



③ Add device

- During power off, press and hold the "power key" for 3 seconds until " " and " " is flashing.



- Enter the "Home" interface of the APP, click " " in the upper right corner, select "Add Device".
- The system will automatically search and find the device, and then click "Add".

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



◆ Main Function

① User operation of RF Thermostat

- Power on/off**
Press "power key" shortly , the thermostat will be turn on/off.
- Time setting**
Press and hold "power key" for 3 seconds to enter time setting, and adjust it as follow:
• Choose modified item by pressing "knob key", and set the week day and clock by rotating "knob key". Finally, confirm by pressing "power key" shortly.
- Temperature setting**
Rotating "knob key" to increase or decrease setpoint temperature by 0.5°C.
- Child-lock**
• Press and hold "power key" + "knob key" for 3 seconds to activate child-lock, the thermostat can be locked.
• Press and hold both keys again to deactivate child-lock.
- Temperature Control Mode**
Press "knob key" shortly to switch between manual mode and auto mode.
• **Manual Mode:** The temperature is controlled in accordance with the current temperature set via "knob key". It remains activated until the next manual change.
• **Auto mode:** The temperature is controlled in accordance with the set heating profile. Manual changes are activated until the next point at which the profile changes(" " is displayed on the screen). Afterwards, the defined heating profile will be activated again.

Weekly programming setting

For weekdays and weekend up to 6 heating events with individual temperature settings can be saved with the thermostat. Press and hold "knob key" for 3 seconds to enter weekly programming setting, adjust it as follow:
• Choose modified item by pressing "knob key", and set the week day, clock and temperature by rotating "knob key". Finally, confirm by pressing "power key" shortly.

Events	Symbols	Time		Temperature	
		Default value	Modify	Default value	Modify
Weekdays	1	06:00	Rotate knob	20°C (68°F)	Rotate knob
	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	20°C (68°F)		
	2	22:00	15°C (59°F)		

Backlight Control

- After plugging in the Type-C USB cable, during power-on, press "power key" fastly twice to enter backlight control setting, and adjust it as follow:
• Choose modified item by pressing "knob key", and set the on/off time and backlight on/off by rotating "knob key". Finally, confirm by pressing "power key" shortly.

Pairing mode

- During power off, press and hold "power key" + "knob key" for 3 seconds to enter pairing mode.
- Wi-Fi config (Wi-Fi version only)**
During power off, press and hold "power key" for 3 seconds to enter Wi-Fi config, and add the thermostat on Tuya Smart/Smart Life APP.
- Low power reminder**
When the voltage is less than 2.3 V, battery power icon " " flickers, it is recommended to replace the new battery as soon as possible before use.

② Operating instructions of RF Receiver

*Reminder: Newly Added Internal Button(Pairing/Reset)

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
	Under power on/off, short press "Internal Button"	" " 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
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°C temperature limit)

External probe temperature limit temp setting

When the power light is flashing, short press " " twice	" " Power light is flashing + " " yellow light is on (40°C temperature limit)
When the power light is flashing, short three times press " "	" " Power light is flashing + " " red light is on (55°C temperature limit)
When the power light is flashing, long press " " for 3 seconds	Save and exit External sensor temperature limit temperature setting
Under power-off, press " " for 3 seconds. After the green light flashes " " , double-click the press " " again	" " " lights flash once at the same time
Under power on/off, long press "Internal Button" for 3 seconds	" " " lights flash once at the same time

③ Advanced setting of RF Thermostat

* Usually for Professional Technicians

During power-off, press and hold "Knob key" for 3 seconds to enter advanced setting mode, then repress "Knob key" to switch to next setting items. Finally, confirm by pressing "power key" shortly.

Code	Meaning	Rotate knob key " "	Default value
01	Temp. calibration	-9.9~9.9°C(-9~9°F)	0°C
02	Switch deviation	0.5~10°C(1~10°F)	0.5°C
03	Temp. upper limit	5~95°C(41~199°F)	50°C
04	Temp. lower limit	5~47°C(41~117°F)	5°C
05	Frost protection	ON: frost protection on OFF: frost protection off	OFF
06	Temperature unit	°C/°F	°C

Weekly programming setting

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	Boot Status	00: Power OFF 01: Power ON 02: The last status before power loss	02
19	Restore factory settings	Press " " for 3 seconds to reset	/

◆ Voice control (Wi-Fi version only)

After waking up the speaker, you can say:

Amazon Alexa : Alexa,	Google Assistant : OK google,
* Turn on the HEATER	* Turn on the HEATER
* Turn off the HEATER	* Turn off the HEATER
* Make the HEATER cooler in here.	* Set the HEATER to 26 degree
* Make the HEATER warmer in here.	* Drop the HEATER by 1 degree
* What is the temperature of the HEATER?	* Raise the HEATER by 1 degree
* Turn on child lock for the HEATER	* Turn on child lock for the HEATER
* Turn off 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.