Desktop Type RF Smart Thermostat for wall-hung boiler

Powered by **tuya**

Super strong RF signal for sub1G Communication

Wi Fi

WORKS WITH Amazon Alexa　WORKS WITH Google Assistant　WORKS WITH Yandex Alice

English

◆ 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 wielojęzyku-skanowanie
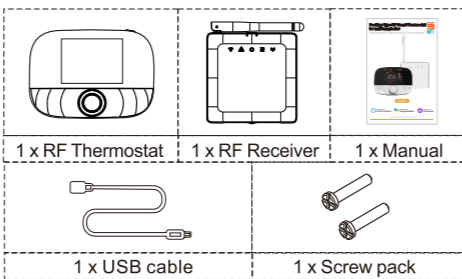- двухмерных кодов для получения многоязычных электронных руководств.

Operation Video & RF Pairing 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 sprzętu.
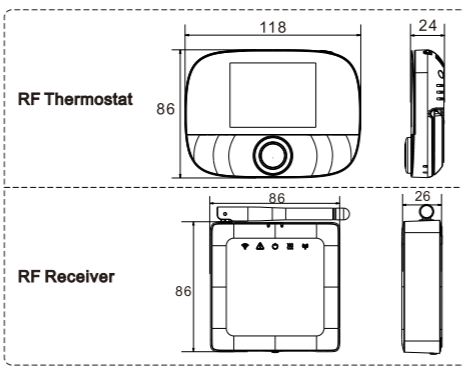- Сканируя QR - код, вы получаете видео шагов работы устройства.

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

◆ Standard Accessories

| 1 x RF Thermostat | 1 x RF Receiver | 1 x Manual |
| 1 x USB cable | 1 x Screw pack | |

◆ Dimensions (Unit: mm)

RF Thermostat — 118 / 24 / 86

RF Receiver — 86 / 26 / 86

◆ Technical specifications

[RF Thermostat]

Power supply	2 x 1.5 V alkaline AA batteries / USB powered (Type-C interface)
Temp. setting range	5~95℃
Ambient temperature	−5~50℃
Temp. Measurement accuracy	0.1℃
Temp. setting accuracy	0.5℃
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℃
Transmission distance	≤200m in the open air
Wireless frequency	433MHz（FSK）/ 433MHz (Bidirectional FSK)

◆ Product Overview

[RF Thermostat]

Frost Protection / Child-lock / 433MHz (RF) / Wi-Fi / Weather forecast (Wi-Fi version only) / Room temperature / Heating on USB charge (Type-C interface) / Week Day

Clock / Outdoor humidity (Wi-Fi version only) / 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 / Setpoint temperature / Manual Mode / Auto Mode / Battery power

Knob key

[RF Receiver]

Power key / Fault indicator light

Antenna / SET key / Pairing light flashing - pairing on - successful pairing off - not paired / Heating light : heating on/off / Power light : power on/off

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 network distance depends on the actual network condition)

(1) desktop placement
RF Thermostat ≤200m RF Receiver — Wall-hung Boiler

(2) wall mounting
RF Thermostat ≤200m

***Note: ≤200m in the open air.**

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.

(1) USB powered (Type-C interface)
Type-C
- Use Type-C cable to power the device through the Type-C interface.

(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
- After unscrewing the screws,release front cover by inserting a head screw-driver into bottom crack.

- The user can choose the wiring method as follows.

(1) Exposed wiring: Remove the crimping plate from the base, connect the wires, and then install the crimping plate with a screwdriver.

(2) Concealed installation and routing: Pass wires through the opening of the bottom, and then connect the wires.

- Connect wires to the terminal according to wiring diagram. After wiring the terminal , reattach the upper cover and latch it into place. (**Example: Passive wiring)

L N / N OPEN CLOSE / COM NO NC

⚠ **Safety Caution! Very Important!** Switch OFF the power for the HAVC system when wiring.

Power cable / Signal line

⚠ **Safety Caution! Very Important!** Switch OFF the power for the HAVC system when wiring.

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.

Supply	Relay for Actuator	Relay for Boiler
AC 230V 50/60Hz	Max 230V~5(3)A CLOSE OPEN	Max 230V~5(3)A
L N	N OPEN CLOSE	COM NO NC

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 "**SET key**" for 3 seconds, pairing light "(ꝰ)" flashing, the receiver enters pairing mode.
- **Thermostat:** During power-off, press "**power key**" + "**knob key**" for 3 seconds, the thermostat enters pairing mode.
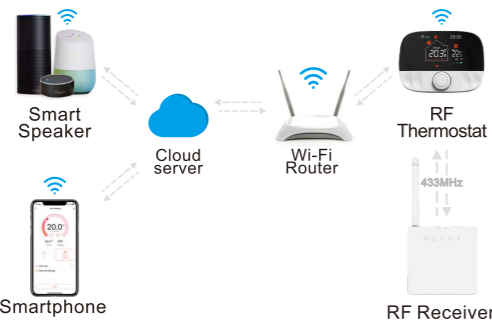
Enter pairing state — OFF — Pairing light flashing — power knob

- When the receiver's buzzer beeps once, and the pairing light "(ꝰ)" is always on, the pairing is successful.

RF Thermostat 1 — Keep pairing state OFF — RF Receiver Pairing light on
RF Thermostat 2 — Keep pairing state OFF

Tip: Multiple RF thermostats pairing with one RF receiver is supported.

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

Smart Speaker — Cloud server — Wi-Fi Router — RF Thermostat
Smartphone — 433MHz — RF Receiver

◆ 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

Enter the Register/Login interface; tap "Register" to create an account by entering your phone number to get verification code and "Set password". Choose "Log in" if you already have a **Smart Life** account.

③ Add device
- During power off, press and hold the "**power key**" for 3 seconds until "⌐ _」" and "🛜" is flashing.

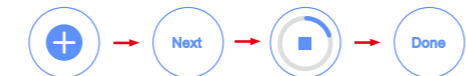OFF — [ ]

- 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** ".

➕ → Add

*Attention: Please turn on the Bluetooth and WiFi of your phone in advance. And ensure that the smartphone OS allows the Smart Life APP to access the Bluetooth function.

- 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.

➕ → Next → ⏹ → Done

◆ 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℃.

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℃(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℉)	

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.

* Note: You can adjust standby mode brightness from 0% to 100% on the Smart Life APP.

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

Function	Steps	Display state
Power on/off	Press "**Power key**" shortly	"〇"Power light is always on/off
RF Pairing	During power-on, press "**SET key**" for 3 seconds	"〇"Power light is on+ "(ꝰ)"Pairing light flashing quickly
RF Pairing successful	\	Buzzer beeps +"(ꝰ)" pairing light is on
Forced output	During power-on, press "**Power key**" for 3 seconds	"〇"Power light is on+ "🔥"Heating light is blinking
	press "**Power key**" shortly to exit the forced output	"🔥"Heating light is off
Restore factory settings	During power-off, press "**Power key**" for 3 seconds	"⚡"four lights flash once at the same time

⑤Advanced 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℃(-9~9℉)	0℃
02	Switch deviation	0.5~10℃(1~10℉)	0.5℃
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	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，
* 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.