Desktop Type RF Smart Thermostat for wall-hung boiler

Super strong RF signal for sub1G Communication

Powered by Tuya · Wi-Fi

English

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

◆ 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 rozwiązowane
- двухмерных кодов для получения многоязычных электронных руководств.

- Scan the QR code to obtain the operation video and RF pairing video
- Scannen Sie den QR-Code, um das Operations video und das HF-Pairing-Video zu erhalten.
- Escanee el Código QR para obtener el video de operación y el video de emparejamiento de radiofrecuencia
- Zeskanuj kod QR, aby uzyskać wideo operacyjne i wideo parowania RF
- Сканирование QR – кода для получения видео операции и радиочастотного спаривания

Operation Video &RF Pairing Video

Wi-Fi Config Video
- Scan QR code to obtain Wi-Fi config video.
- Scannen Sie QR-Code, um WLAN-Konfigurationsvideo zu erhalten.
- Escanee el Código QR para obtener el video de configuración Wi-Fi.
- Zeskanuj kod QR, aby uzyskać wideo konfiguracyjne Wi-Fi.
- Сканируйте QR – код, чтобы получить видео конфигурации Wi - Fi.

◆ Standard Accessories

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

◆ Dimensions (Unit: mm)

RF Thermostat
RF Receiver
Thermostat Bracket

◆ Technical specifications

[RF Thermostat]

Power supply	3 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 (FSK)
Wi-Fi
Weather forecast (Wi-Fi version only)
Room temperature
Heating on
Week Day

Clock
Outdoor humidity (Wi-Fi version only)
Leave up: Event 1
Leave (am): Event 2
Return (am): Event 3
Leave (pm): Event 4
Return (pm): Event 5
Sleep: Event 6
Setpoint temperature
ECO mode
Manual Mode
Auto Mode
Battery power

Mode key | Knob key | ECO key

[RF Receiver]

Power key
Fault indicator light

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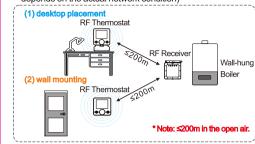Heating light - heating on/off
Power light : power on/off

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.
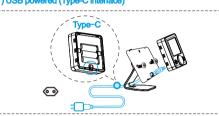
◆ Installation

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

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

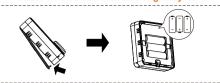***Note:≤200m in the open air.**

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

- Pass the Type-C cable through the notch of the bracket, and use it to power the device.
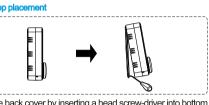
(2) 3 x 1.5 V alkaline AA batteries

- **Note:** · It is recommended to use 3 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;

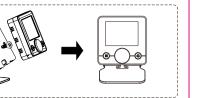### ② RF Receiver installation steps

(1) desktop placement

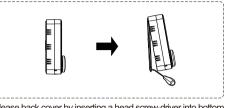- Release back cover by inserting a head screw-driver into bottom crack.

- Attach back plate to thermostat bracket by two mounting screws.

- Reattach the front cover and latch it into place via snap-fit connection.

(2) wall mounting

- Reattach the front cover and latch it into place via snap-fit connection.

③ RF Receiver installation steps

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

- Release back 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.

- Attach back plate to wall-cassette by two mounting screws.

- 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)

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

L N N ON/CLOSE COM NO NC

Power cable | Signal line

④ 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.

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

Supply	Relay for Actuator	Relay for Boiler
AC 230V 50/60Hz	Max 230V~5/3A	Max 230V~5(3)A

L N N OPEN CLOSE COM NO NC

⑤ 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 "" flashing, the receiver enters pairing mode.
- **Thermostat:** During power-off, press "Knob key" for 3 seconds, the thermostat enters pairing mode.

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

RF Thermostat 1
RF Thermostat 2
RF Receiver

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 — 433MHz — RF Receiver
Smartphone

◆ Software Installation (Wi-Fi version only)

① 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.

Available on the App Store · GET IT ON Google play

② Registration or Log in （Wi-Fi version only ）

Login

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 "ECO 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 ".

*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.

◆ Main Function

① User operation of RF Thermostat

Power on/off
Press "Knob key" shortly , the thermostat will be turn on/off.

Time setting
Press and hold "" for 3 seconds to enter time setting, and adjust it as follow:
- Choose modified item by pressing "", and set the week day and clock by rotating "Knob key". Finally, confirm by pressing "Knob key" shortly.

Temperature setting
Rotating "Knob key" to increase or decrease setpoint temperature by 0.5℃.

Child-lock
- Press and hold "" + "" 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 "" 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 adjusted 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.

- 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

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 "" for 3 seconds to enter weekly programming setting, adjust it as follow:
- Choose modified item by pressing "", and set the week day, clock and temperature by rotating "Knob key ". Finally, confirm by pressing " Knob key " shortly.

Events		Symbols	Time		Temperature	
			Default value	Modify	Default value	Modify
Weekdays	1	☀	06:00	Rotable knob	20℃ (68℉)	Rotable 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 and hold "Knob key " for 3 seconds to enter backlight control setting, and adjust it as follow:
- Choose modified item by pressing "", and set the on/off time and backlight on/off by rotating "Knob key ". Finally, confirm by pressing " Knob key " shortly.

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

ECO mode
Press "" shortly to enter ECO mode ,and the temperature will be set to 18℃.

Pairing mode
During power-off, press and hold " Knob key " for 3 seconds to enter pairing mode.

Wi-Fi config (Wi-Fi version only)
During power-off, press and hold "" 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 3.3 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	"O "Power light is always on/off
RF Pairing	During power-on, press "SET key" for 3 seconds	"O "Power light is on+ "" Pairing light flashing quickly
RF Pairing successful	\	Buzzer beeps +"" pairing light is on
Forced output	During power-on, press "Power key" for 3 seconds	"O "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

③ Advanced setting of RF Thermostat

* Usually for Professional Technicians

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

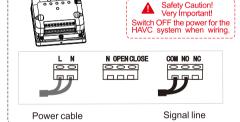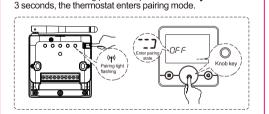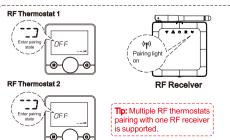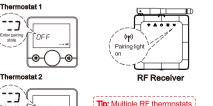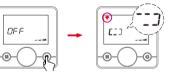| Code	Meaning	Press " Knob key "	Default value
01	Temp. calibration	-9.9~9.9℃(-9~9℉)	0℃
02	Switch deviation	0.5~10℃(1~10℉)	0.5℃
03	Temp. upper limit	5~95℃ (41~199℉)	90℃
04	Temp. lower limit	5~47℃(41~117℉)	5℃
05	Frost protection	ON: frost protection on OFF: frost protection off	OFF
06	Temperature unit		℃
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.