LED WiFi Smart Thermostatic Radiator Valve

Powered by tuya

Supporting remote control by smart life app, voice control by Amazon Alexa and Google Assistant

English

WORKS WITH Amazon Alexa
WORKS WITH Google Assistant

◆ Product overview

Temperature controller of heat radiator is powered by dry battery, without wiring, is convenient in mounting, is used to control the temperature of water-heated radiator. When providing comfortable temperature, it can reduce energy waste and save users' heating cost. This product, with a built-in low-power consumption graffiti WIFI wireless communication module and LED Display light, can be used alone or attend to the graffiti intelligence APP so that it can become an intelligent temperature controller which can be set and checked in the APP.

After joining graffiti intelligence system, the mode can be selected in APP, the temperature, child lock and window-opening detection function can be set. Any operation at equipment end, such as manual setting of temperature, would be synchronized to APP.

◆ Technical specifications

Power Supply:	3 x 1.5 V alkaline AA batteries (not included)
Standby Current:	6µA Min
Protection Degree:	IP20
Ambient Temperature:	0~50℃
Surface Temperature:	90℃ Max (at the radiator)
Connection:	M30 x 1.5mm
Linear Travel:	6mm
Dimensions(W x H x D):	54mm x89mm x 54mm
Weight:	139g

◆ Installation of the Adapters

Method to correctly mount adapter

◆ Installation Instructions

1: Pull the knob in the direction of the arrow with your hand.

2: Pull out shell with right hand toward the arrow dire.

3: Refer to the polar direction as indicated in battery tank to load 3 AA alkaline batteries.

4: Install the shell and knob at the marked position to complete the installation.

◆ Device Overview

Middle button
Knob button

Holiday mode
Children's lock
Comfort mode
Energy-saving mode
Sensing temperature
Heating
Network configuration
Manual mode
Auto mode
Antifrost

Union nut for heating valve

54mm
89mm

◆ Operation

Before temperature controller is mounted on valve, load 3 batteries as per the polar direction as indicated in battery tank.In the me.antime, you would feel the slight vibration of temperature controller. The temperature control valve enters the automatic detection mode.

Align the interface nut of temperature controller at the heat radiator valve. When slightly pushing forward, clockwise rotate interface nut till tightening, with the maximum moment of 5N.m current temperature is displayed, and the mounting is finished. Turn the knob to adjust the temperature.

To minimize the influence of heat radiator's own calorie on temperature controller,it is suggested to mount as per the following method

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◆ Automatic detection

■ After temperature controller is mounted, the system would be automatically adjusted as per the set program. In this process, you may find that temperature controller carries out the voluntary and repeated heating/cooling, which belongs to the necessary component of automatic detection.

■ At the specific running time period of temperature controller, the temperature controller would switch off the heat radiator valve, then open it again to detect the exact opening position of valve. The automatic detection function could achieve efficient utilization of calorie and more accurate control of temperature as far as possible.

■ If necessary, please take out battery and wait for 30s, then reload battery to activate the mounting mode so that temperature controller forcibly runs the automatic detection function. At this time, the temperature control valve shows LA

About valve

Schematic Diagram of Valve A Mounting
Schematic Diagram of Valve B Mounting

◆ Mode settings

● Programming mode

Programming mode refers to the automatic switch to the needed temperature as per different time. For example, 16℃, 22℃ and 16℃ are automatically set for 8:00 (after leaving home), 17:00 (at home) and 2:00 (after sleep). Programming mode needs to connect WiFi and needs the network support.

● Manual mode

Manual mode refers to the constant temperature of temperature controller at certain temperature around the clock, and temperature wouldn't switch in different time, namely stand-alone operation, with the setting scope of 5–35℃.

◆ Operating instructions

Shutdown: When the temperature is adjusted to the minimum temperature and then decreases, turn it off.

Power on: Turn on the machine by rotating and adding temperature in the shutdown state, or short press the mode button.

In the shutdown state, press for 3 seconds to connect to the network/or delete the network.

Power on (the set temperature is higher than 5 degrees) and long press for 3 seconds is the child lock/or remove the child lock.

After booting, when the temperature is set to 35 degrees, press and hold for 3 seconds to reverse the display.

Window detection function, opening and closing can be set on the APP.

short press the mode key to switch mode, manual, automatic, shutdown Three state switching.

Anti-freeze function.

When the machine is turned off, when the indoor temperature is lessthan 5℃,the valve opens and starts heating.When the indoortemperature rises to 8℃,
the valve closes and stops heating

◆ Product characteristics

4 working modes, ⊙—programming mode,☝—manual mode, ⚙—temporary programming mode, OFF −OFF mode,

Built-in big-front LEDDisplay screen facilitates check, Battery's endurance period lasts for one heating season. worry-freeThe graffiti WIFI wireless communication protocol is adopted, safe,reliable and conveni

◆ Window-opening detection

Startup-room temperature decreases by 3°C within 5 minutes, stop heatingClose -room temperature rises by 3 degrees/48 minutes later/manual(three ways)After the window opening mode is turned on, one of thesethree conditions can trigger to exit the window opening mode.

• If your open window switch is off, the device will not detect the temperature and stop heating.

◆ Anti-scale function

If the cooling fin's valve isn't completely on one time within two weeks, valve wouldbe blocked due to excessive scale, and the cooling fin won't be used. To guaranteethat the cooling fin can be used normally, controller would automatically switch onvalve completely one time every two weeks and run for 30s. During that period.

◆ Error code

Troubleshooting and maintenance

Error code	Problem
E1	Stroke fault detection
E2	Low battery
E3	Temperature sensor abnormality
E4	Reminder to open the window
E5	Indoor low temperature alarm

◆ APP download

Phone Port Operation Instruction

Preparation before Network Configuration

APP download and account registration:
1.Download APP
For iOS system: Login in App Store,search "Tuya Smart",you can download it on your iphone.
For Andriod system: Login in Google Play, search " Tuya Smart" you can download it on your phone.

Or scan below code to download:

2. Account registration. If you have no APP account, you can select to register or log in via message authentication code. Click "create new account" to enter the Privacy Policy page of graffiti intelligence platform. After clicking "content", officially enter the registration page of mobile phone number.

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The system automatically determines the current country/region. You can also select the country/region manually. After entering your mobile phone number or email address, click "get verification code". Enter the received verification code, then enter the password, and click "Finish" to register successfully.

Register	Enter Verification Code	Set Password

WIFI connection

1.Turn on your mobile phone's Bluetooth and WiFi function. Connect your mobile phone to **your 2.4Ghz WiFi** (please make sure your mobile phone connect to 2.4Ghz Wi-Fi and the 2.4Ghz Wi-Fi name and password contain only numbers and letters and not special symbols)

2.Activate the thermostat WiFi module:When the thermostat is turned off,press and hold the Middle button for 3 seconds,the 🛜 icon flashes on the thermostat display,and the thermostat enters the code matching state.

3.Add Device

There are 2 ways to add a device
Method 1. Enter the Tuya APP. The main page automatically pops up "Device to be added" (as picture 1) and click "Add".

picture 1

Method 2 : Enter the Tuya APP, Click "Add Device" or "+" (as picture 2) on the upper right corner of the APP homepage,and enter the "Add Device" interface.It will prompt: find the deviceto be added (as picture 3) and follow the prompts.

picture 2
picture 3

4.Enter Wi-Fi information
Enter the name and password of the **2.4Ghz Wi-Fi**

If your phone is already connected to WiFi,then the name and password of the WiFi you are connected to will be automatically filled in here

Follow the prompts to the next step,you can see the device is being added,and after a few seconds,you will see that the device is added successfully (the length oftime will depend on the strength of the wifi signal).

◆ 2.4Ghz Wi-Fi name
◆ Wi-Fi password

picture 4

If you can't find the device or the connection fails in the above way. You can try the following steps as follows

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2.Activate the thermostat WiFi module:When the thermostat is turned off,press and hold the Middle button for 3 seconds,the 🛜 icon flashes on the thermostat display,and the thermostat enters the code matching state.

Enter the Tuya APP, Click"+"on the upper right corner of the APP homepage,Click "add device"Find the TRV in "Small Home Appliance" (as picture 4)

Wait a few seconds,you can see the device is being added,and after a few seconds,you will see that the device is added successfully (the length oftime will depend on the strength of the wifi signal).

Connecting Device

01:57

Display of temperature controller APP interface

16.0

If you encounter any problems during the use of the product, please feel free to contact us through the purchase platform, we will try our best to help you.