

Welcome

Thank you for your purchase. We always made high-quality products with our high-end technology, high-quality craftsmanship, safe and reliable materials .The new radiator thermostat will bring you a more comfortable smart life . Please read this installation/ programming manual for installing and operating. Please also make sure someone qualified to install the radiator . Comply with all local regulations.

FEATURES

- 1. LED display, no window, wider perspective
- 2. Colorful display
- 3. Graceful arc waist shape
- 4. Rubber stretch paint, feel like baby skin
- 5. Night Halo colors your home
- 6. Low power consumption,battery can last 1 year for normal use and standby for 2 years.
- 7. Low battery tip
- 8. Diagram of temperature curve added in APP
- 9. Vary colors are available like white, Black, gray etc.

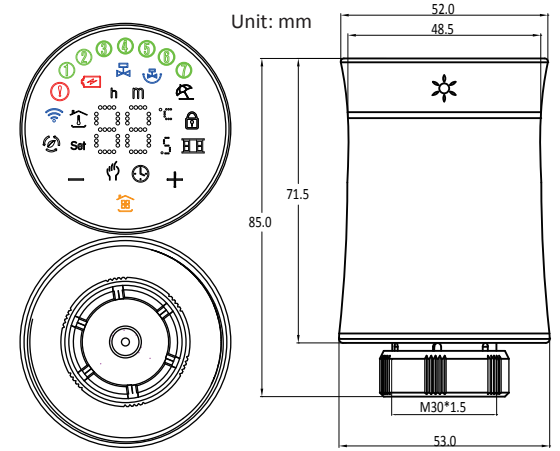
In the box you will find

|                    |      |   |
|--------------------|------|---|
| Raditor Thermostat | 1pc  | <b>Special note: The Zigbee version of the temperature control valve should be used with a Zigbee gateway compatible with "Tuya Iot". The package does not include the battery and gateway.</b> |
| User Guide         | 1pc  |   |
| RA Adapter         | 1pc  |   |
| RAV Adapter        | 1pc  |   |
| RAVL Adapter       | 1pc  |   |
| Comap Adapter      | 1pc  |   |
| T+A Herz Adapter   | 1set |   |
| Herz Adapter       | 1pc  |   |

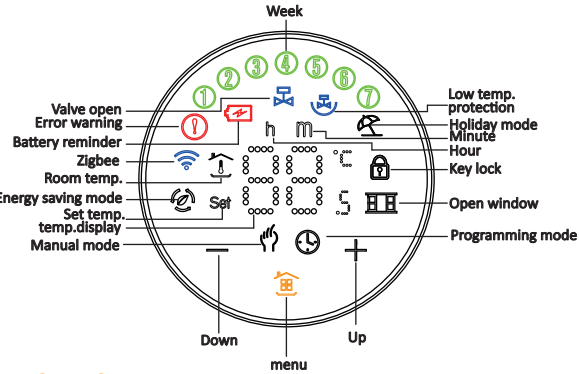
APPLICATION



DIMENSION



HOME SCREEN QUICK REFERENCE



TECHNICAL DATA

Power Supply: 3 V,2xAA Batteries, Packaging not have battery.  
Maximum stroke: 4.5mm  
Accuracy: ± 0.5°C

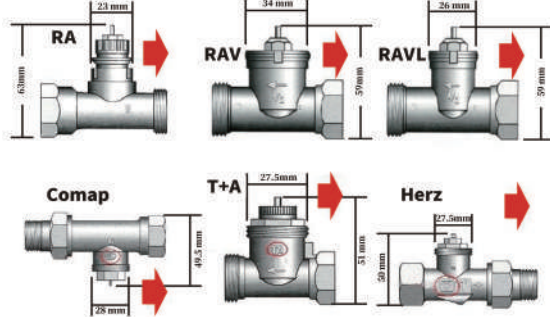
Set Temp. Range: 5~45 °C  
Display temp. Range: 0~70°C  
Ambient Temp.: 0 ~ 45 °C  
Ambient Humidity: 5 ~ 95 % RH (Non Condensing)  
Storage Temp.: -5~ 45 °C  
Timing Error: < 1%  
Protection Class: IP 20  
Buttons: Capacitive Touch Buttons

Before installing

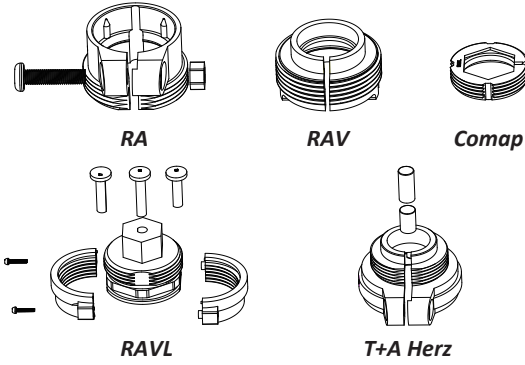
To avoid damages to the product during installation,please read the manual carefully before installing TRV .

INSTALLATION

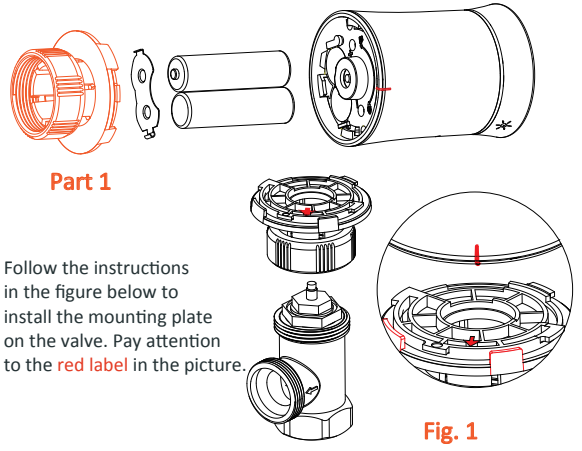
**Step 1: Select the adapter.**TRV is usually connected with **M30\*1.5mm** valve. If you have different valves, please determine your valve type according to the picture below, and choose the correct adapter from the package. If you do not find the valve that matches your use in the picture below, please buy it carefully.



**Step 2: Install the adapter.**Install the adapter on your valve as the picture below. If you don't need an adapter, please ignore this step.



**Step 3: Install the thermostat mounting plate.**Remove the mounting plate of the thermostat (**Part 1** in the picture below) counterclockwise.



Step 4: Install battery

Follow the picture below to install the battery in the correct direction. After the battery is installed correctly, the thermostat will be turned on. At this time, click the (only once), the thermostat will display and flash "F1", when the "F1" stops flashing, the thermostat motor It will all shrink to facilitate the connection of the thermostat and the mounting plate.

**Step 5:** Connect the thermostat and the mounting board When "F1" stops flashing, find the "mark point" of the thermostat, shown *Fig. 1*.Turn clockwise to complete the connection between the thermostat and the mounting plate. After clicking the (only once), the thermostat will display "F2". When "F2" disappears, while the screen remains on, turn the thermostat clockwise to adjust the screen to your liking direction.

Installation finished.

OPERATION

**1. Power:** After installing the battery, it will automatically turn on. It can't be turned off till the battery is removed. When the TRV is turned on, it will enter the self-check program, and all icons will be displayed firstly. Press , the screen flashes "F1", indicating that the temperature control valve is shrinking; when "F1" stops flashing, press again, The screen displays "F2",Indicates that the temperature control valve is measuring.; when the screen displays the room temperature, it indicates that the temperature control valve has completed the stroke measurement, and you can start using the temperature control valve normally.

2. Mode selection

Press to switch between manual, programming, vacation modes.

**Manual mode** - In this mode, the device executes manual temperature setting. When the set temperature is lower than the "minimum temperature", the valve is closed (forced closed);

**Programming mode** -In this mode, the device executes a preset week programming temperature time and temperature;

**Holiday mode** - In this mode, for example, the vacation mode is set for 10 days and the temperature is set to 15 degrees Celsius. After 10 days, the device will automatically switch to programming mode;

**Temporary manual mode** - In this mode, icon will flash. At this time, the device executes the manually set temperature and returns to the weekly programming mode in the next time period.

3. Set the temperature

Press "+" / "-" key to adjust the temperature

4. Set the clock

Press and hold for 3 seconds, the screen will display "h" and numbers, indicating that the hour is being set, set the hour by press "+" / "-" keys; press again, the screen will display "m", indicating that the minute is being set, press "+" / "-" keys to set the minutes; press again, the screen will display "number", indicating that the day of the week is being set, and the day of the week can be set by "+" / "-" ;press again, the screen will flash "number, h, m", indicating that the number of days in the vacation mode is set, which can be set by the "+" and "-" keys;

5. Lock your Radiator

Press the "+" and "-" keys together for 3 seconds to lock or unlock the keys.

6. Low voltage reminder

When the voltage is lower than 1.8V, the screen will display .

7. Boost heating

Press and hold "+" for 3 seconds, the device will enter the boost heating mode, and the will flash.The countdown will be displayed in the APP.

8. Adjusting/Setting the Programmable Schedules

Method one;

Manually set a week of programming settings, specific operations are as follows:

Method Two;

Use APP for one week of programming settings, please refer to the second page "Programming your Radiator"

Manual editing:


Press and hold for 3 seconds. When you see the flashing numbers on the screen, press 4 times to skip the clock setting. When the screen displays "①②③④⑤" (means Monday to Friday), flashing numbers and "h", you can set the hour with "+" and "-"; press again, flashing numbers and "m", you can use "+" "-" Set the minutes; press again, the screen displays "Set", and the temperature can be set by "+" "-". This completes the setting of the programmed temperature for one week in the morning from Monday to Friday.

By analogy, refer to the one-week programming temperature default table to complete one-week programming settings.

8. Programming setting

| Time display | MON-FRI<br>(①②③④⑤ shows on screen) |       | SAT.<br>(⑥shows on screen) |       | SUN.<br>(⑦shows on screen) |       |
|--------------|------------------------------------|-------|----------------------------|-------|----------------------------|-------|
|              | TIME                               | TEMP. | TIME                       | TEMP. | TIME                       | TEMP. |
| Period 1     | 6:00-11:30                         | 20    | 6:00-12:00                 | 24    | 6:00-12:30                 | 19    |
| Period 2     | 11:30-13:30                        | 21    | 12:00-14:30                | 23    | 12:30-14:30                | 20    |
| Period 3     | 13:30-17:30                        | 22    | 14:30-17:30                | 22    | 14:30-18:30                | 21    |
| Period 4     | 17:30-6:00                         | 23    | 17:30-6:00                 | 21    | 18:30-6:00                 | 20    |

9. Setting the Functions and Options

Press and hold the “-” and  3 seconds together , entering into the advanced option settings. The screen displays “A1” (function), after 2 seconds, the number (settings and options) will display, and the options can be set by the “+”/“-” key.

| Code | Function  | Setting and options           | Default                 |
|------|---|-------------------------------|-------------------------|
| A1   | Temperature compensation  | -9°C ~ 9°C                    | -2                      |
| A2   | Open window detection (After the valve is opened, the room temperature is 5- N°C, every 5 minutes, check whether the room temperature is lower than the previous detection by ≥3°C) | 00 : close 01 : open          | 00                      |
| A3   | When A2 is set to “01”, the device detects whether the room temperature has dropped by N°C compared with the previous time  | N : 5-25°C                    | 5                       |
| A4   | When A2 is set to “01”, close the valve time  | 5-60min                       | 15                      |
| A5   | Min.temp.   | 5-15°C                        | 5                       |
| A6   | Max.temp.   | 15-35°C                       | 35                      |
| A7   | Forced heating countdown  | 100-900s                      | 300 (screen display 30) |
| A8   | Detection valve head opening  | Open: ON Closed: OF           | Can only show           |
| A9   | Dead zone tempe.  | 0.5-5°C                       | 1                       |
| AA   | Energy saving mode  | 00 : close 01 : open          | 00                      |
| AB   | Energy saving mode temperature  | 5-35°C                        | 20                      |
| AC   | Low temp. protection  | 0-10°C                        | 5                       |
| AD   | Standby screen brightness   | 0-9                           | 00                      |
| AE   | Factory reset   | 00: do not reset<br>01: reset | 00                      |
| AF   | version number  |                               | U1                      |



10. Command priority

Priority judgment: In manual mode, Set to force close> Start low-temperature protection to force opening > Test window-opening to force closing > Boost heating

11. CE standard

EMC, LVD,RF,ROHS

Common Abnormity and Processing Method

| Error reminder   | Failure description                                       | Solution                         |
|--|---|----------------------------------|
|  icon + screen display E1 | The temperature sensor is disconnected or short-circuited | Contact seller for replacement   |
| “Exclamation mark” icon + screen flashing E2   | The thermostat cannot detect the stroke                   | Reinstall the battery to release |
|  icon                     | Battery voltage is lower than 1.8V                        | Replacement battery              |

About Zigbee

Step 1 Downloed your APP (Fig. 2)



Fig. 2

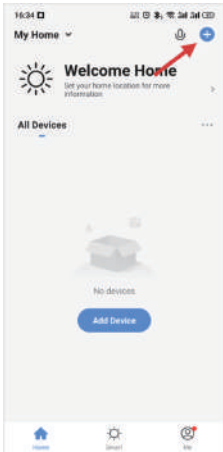


IOS / Android

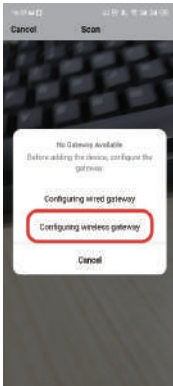
Search for “Smartlife” in the Apple Store or Google Play or scan the QR code above and follow the instructions of the APP to complete the installation.

Step 2 Connect the temperature control valve

Check the tutorial below to complete the connection and setup.



Scan QR code.



Note: Tuya zigbee wireless gateway is used by default. If you use a wired gateway, please check your gateway connection tutorial.

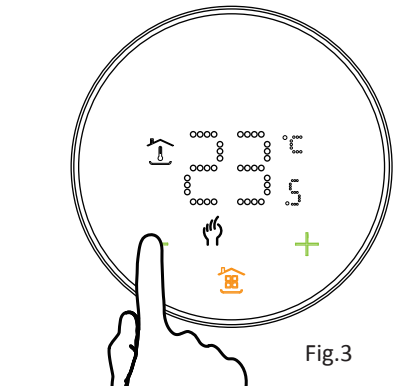
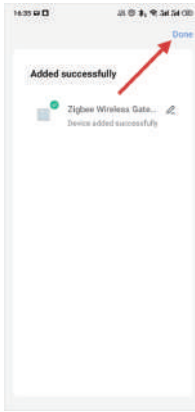
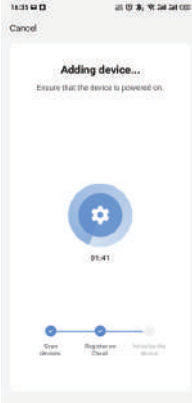
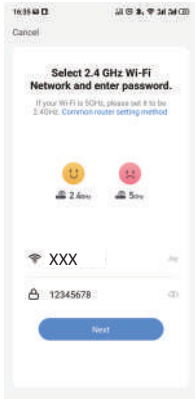


Fig.3

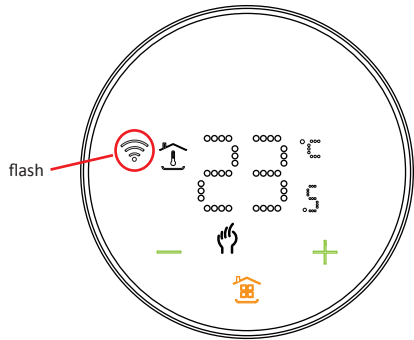
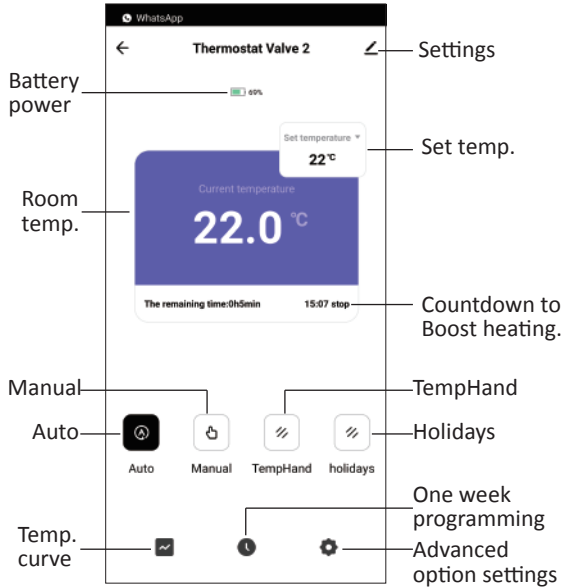


Fig.4

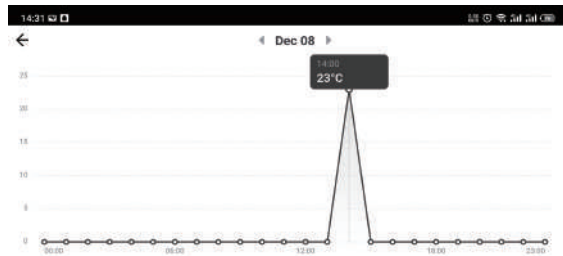
Long press “-” for 3s, as shown in the figure below (Fig. 3), the “Zigbee” icon will flash on the screen(Fig. 4).

APP Interface description



Temperature graph.

According to the temperature graph, you can understand the temperature change in the past time.



After-sales service in warranty period

Your thermostat is guaranteed for 24 months since the date of purchase. Service beyond the warranty period would need extra charges. For more details, please contact us directly.