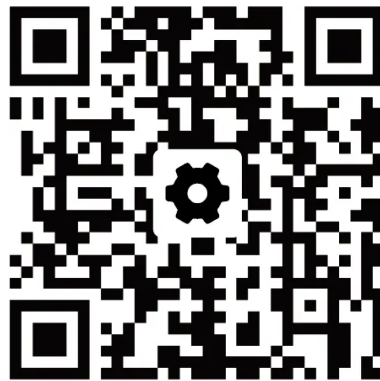


# User Manual TRVZB (EN)



Thermostatic Radiator Valve

User Manual V1.0



<https://sonoff.tech/en-us/blogs/news/adapter-selection-guide>

Remove the old thermostatic faucet and check if a valve adapter is needed, then scan the QR code or enter the URL to select the valve adapter.

## Introduction

With SONOFF Thermostatic Radiator Valve, you can control and reach the temperature you want more accurately. It allows remote control and timing. The window opening detection function helps you save energy and avoid additional energy waste. The matching adapters can be installed on almost any valve.



Remote Control



Smart Timing



Precise Temperature Control



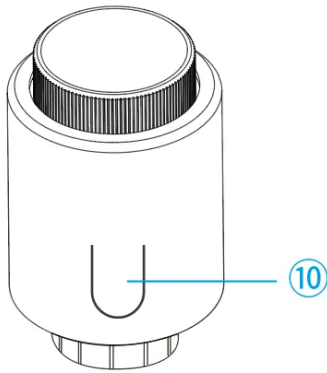
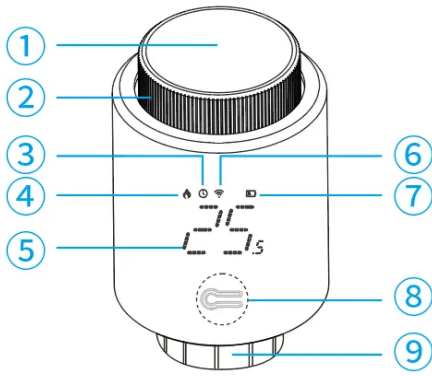
Historical Data Record



Child Safety Lock



Open Window Detection



### ① Middle button

- When the screen displays “OF”, press and hold for 3 seconds: the device enters pairing mode (pairing lasts for 3 minutes).
- Press and hold for 3 seconds: Child Lock ON/OFF (activate or deactivate the child lock).

### ② Rotary knob

### ③ Auto

### ④ Heating

### ⑤ Target temperature

### ⑥ Internet connection

- Flash: Device is in pairing mode

### ⑦ Low battery

### ⑧ Configuration key (under the dismountable shell)












- Press & hold for 3 seconds: switches the screen display orientation by 180°.

### ⑨ Heating valve interface


### ⑩ Battery case latch

## Screen display and introduction

Screen display	Introduction
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	<p><b>Window opening detection function</b></p> <p>The device will automatically identify whether the window is opened after you enter the app interface to enable the window opening detection function. When cold air is detected and the temperature drops more than 1.5 °C within 4.5 minutes, the</p> <p>window opening function will be enabled. Alongside the enabling of the function, the screen displays " " and the temperature is set at 12 °C.</p> <p><b>Note:</b> After the window opening function is enabled, the following operations will disable the window opening function:</p> <ol style="list-style-type: none"> <li>1. Temperature setting operation on App or device.</li> <li>2. Temperature rises by more than 1.5°C within 4.5 minutes.</li> <li>3. No operation on App or device within 30 minutes.</li> </ol>
	<p><b>Anti-calcification function</b></p> <p>The temperature control valve will perform a routine calcium removal operation at 12:00 am every Monday to prevent calcification of the valve. During the operation, the screen will display "".</p>
	<p><b>Child lock function</b></p> <p>Press "Middle button" for 3 seconds, then the screen will display " ", with child lock enabled. After the screen is locked, press "Middle button" for 3 seconds, then the " " on the screen will disappear, with child lock disabled.</p>
	<p>When heating is not needed in winter, turn knob counterclockwise () to the</p> <p>" " icon, then the device valve is closed and the antifreeze function is enabled.</p> <p><b>Note:</b> After the antifreeze function is enabled when the room temperature is below 5 °C, the function will be enabled to prevent the radiator from being damaged by freezing. The function will be disabled when the room temperature exceeds 7 °C.</p>
	<p><b>Low battery</b></p> <p>Battery needs to be replaced with a new one within 1 week.</p>

# Specification

Product name	Thermostatic Radiator Valve
Model	TRVZB
MCU	EFR32MG22C224F512GN32
Rating	4.5V  (3x1.5V AA Batteries)
Battery model	1.5V LR6 Alkaline AA Battery
Zigbee	IEEE 802.15.4
Threaded connection	M30x1.5mm
Temperature setting range	4°C–35°C
Net weight	157g
Working temperature	-10°C~50°C
Working humidity	5~95% RH non-condensing
Color	White
Casing material	PC
Product dimension	59.4x59.4x95mm
Disconnection means	Type 1.B
Pollution degree	2
Rated impulse voltage	500V
Certification	CE/RoHS

## Download the eWeLink App & Add SONOFF Zigbee gateway

Please download the "eWeLink" App from [Google Play Store](#) or [Apple App Store](#).

### Matched Gateways

Recommended SONOFF gateway models:

ZBBridge-P, ZBBridge-U, NSPanel Pro, iHost

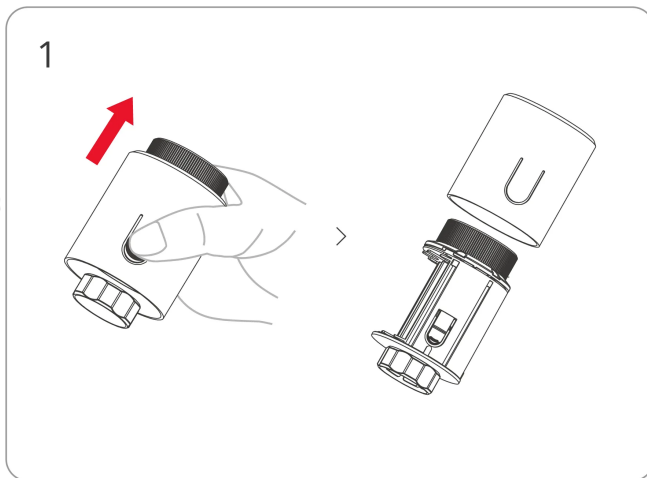
Other compatible SONOFF gateway models:

ZBDongle-P, ZBDongle-E, Dongle-M, Dongle-PMG24, Dongle-LMG21

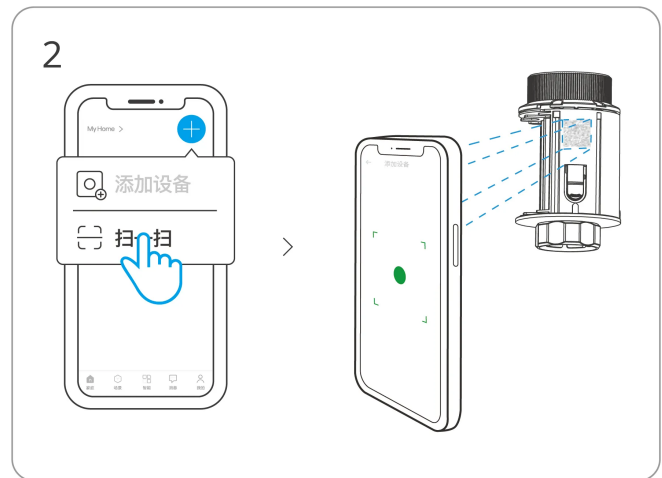
⚠ Make sure the Zigbee gateway is updated to the latest version.

## Preparing Before Scanning the QR Code

### 1. Scanning the QR Code

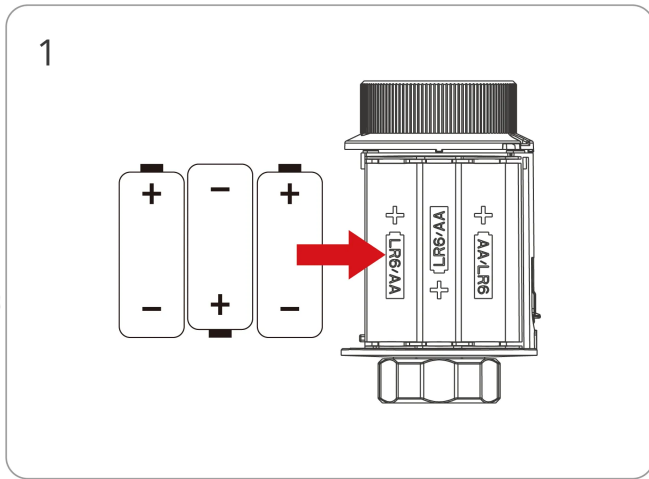


Press the battery compartment latch while taking out the shell

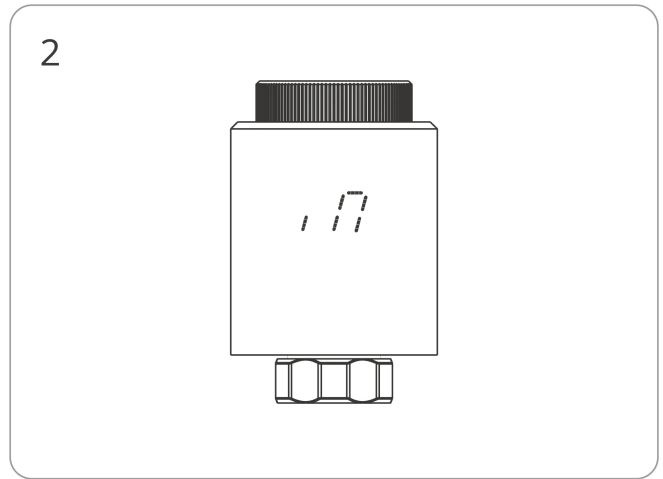


Open the eWeLink App and scan the QR code on the device

### 2. Power on the device

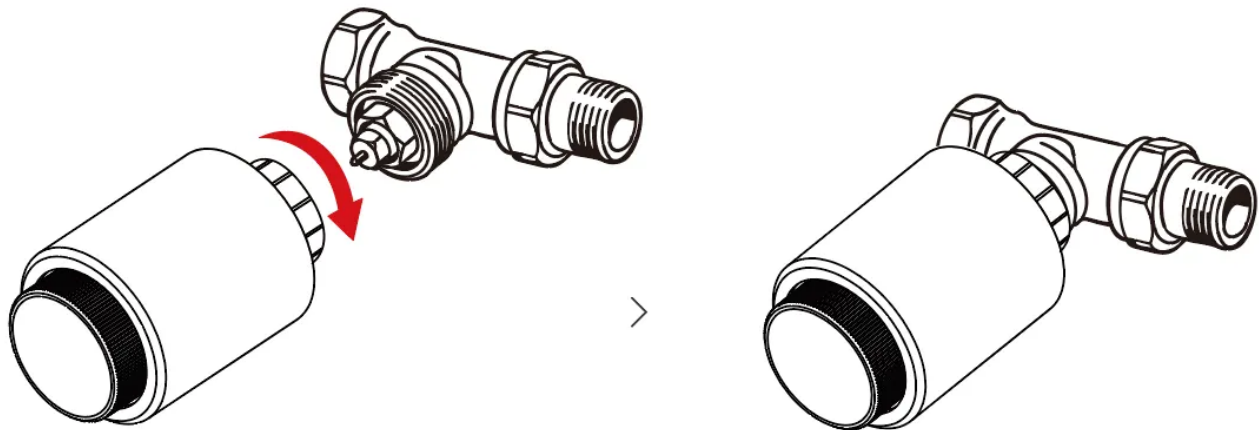


Load the batteries



After powering on, the screen displays "17" and flashes

### 3. Device installation



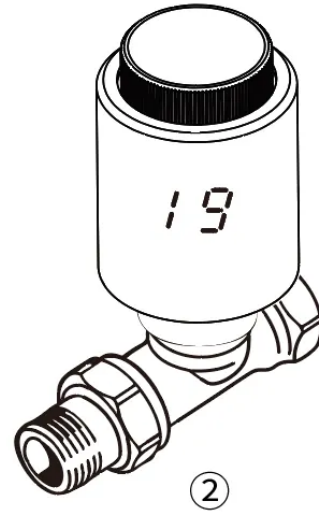
When "17" stops flashing, install the device to the valve interface.

⊙ If the screen displays "FS" or "Ad", press the middle button and "17" will display again.

### 4. Device debugging



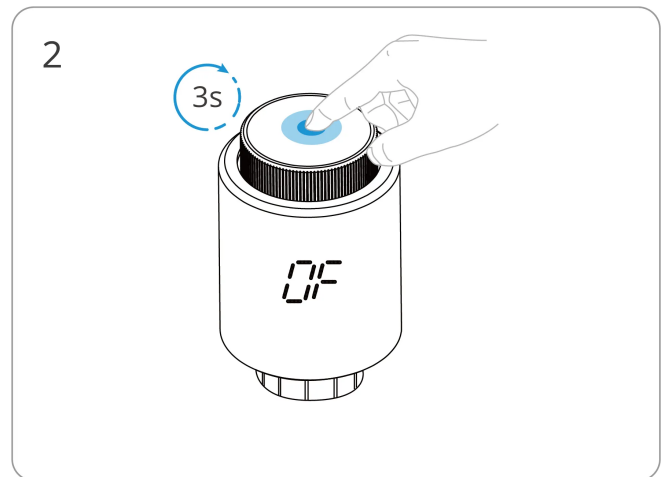
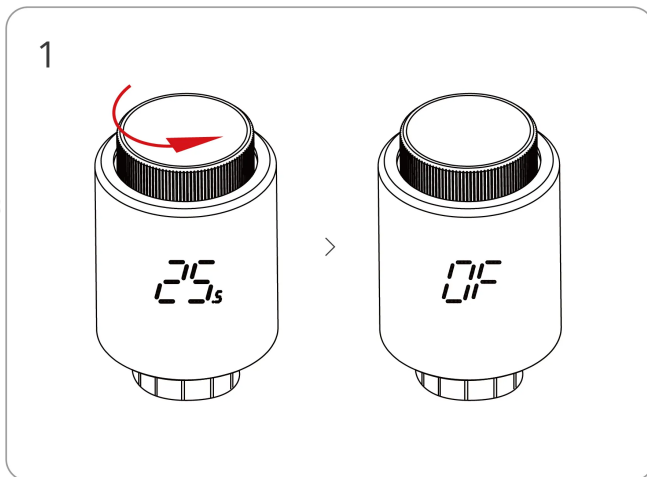
>



Short press the middle button, and " Ad " will flash (Figure ①). Wait for about 5 seconds, and the device will display the initialization interface (Figure ②), which means that debugging is completed.

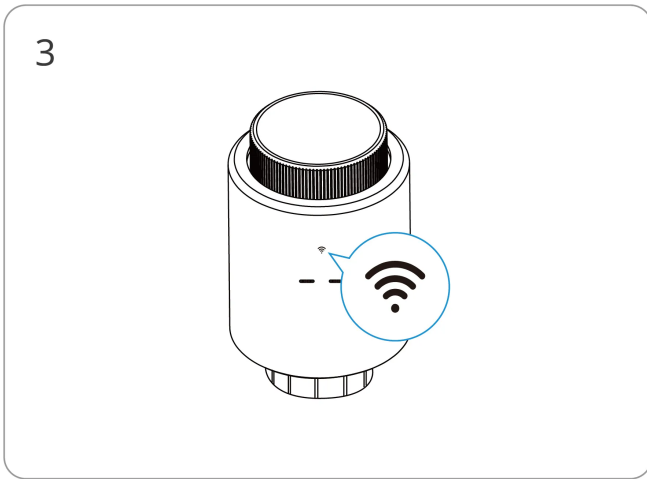
## Add the device to Zigbee Gateway


ⓘ Device pairing operation must be done in manual mode.

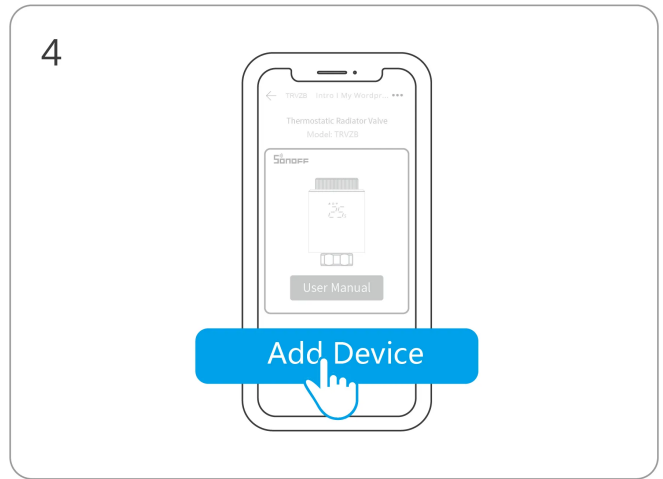


In manual mode, turn the knob counterclockwise. When the screen displays " OF "

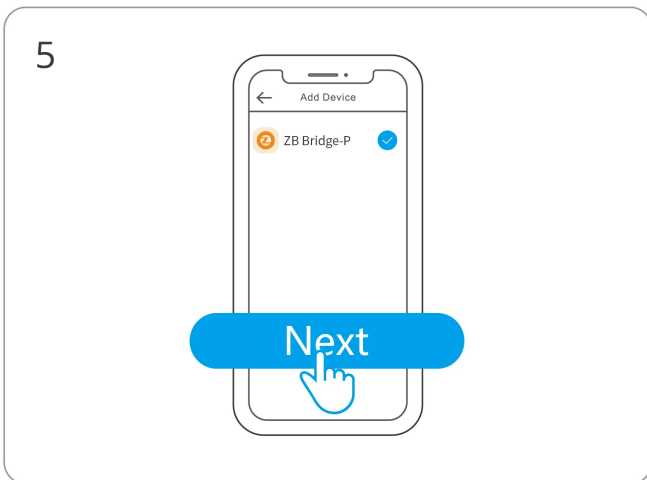
Press and hold the middle button for 3 seconds



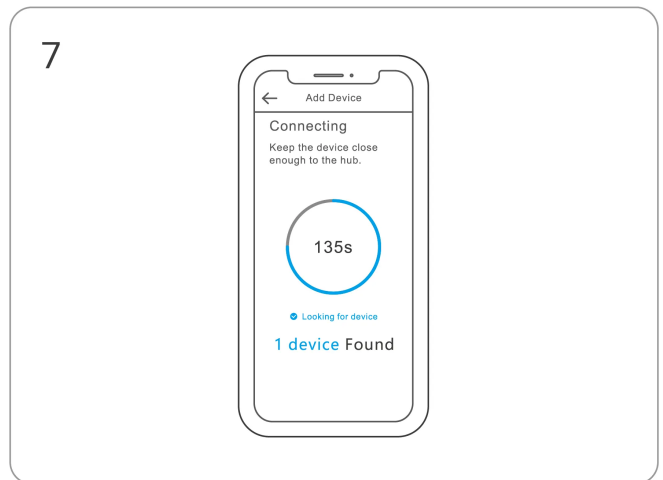
3 Check the Network Indicator  Status (Flashing)





4 Select "Add Device"



5 Select Zigbee gateway

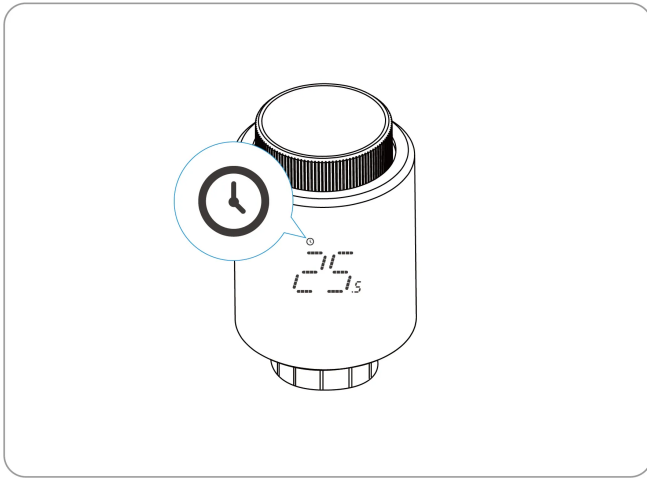


7 Wait until the addition is done

ⓘ If the device fails to pair with the gateway within 3 minutes after it enters Pairing mode, the device will exit the pairing status. If you want to pair again, please press and hold the middle button for 3 seconds until the icon "  " flashes when the screen shows "  ".

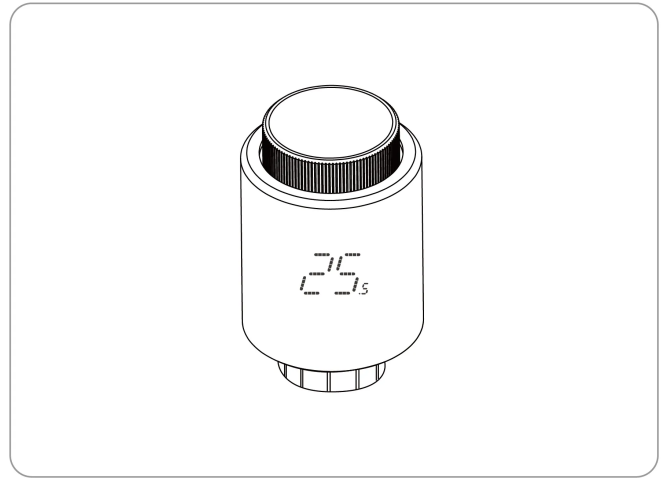
## Temperature control mode

The device supports Auto mode and Manual mode. Shortly press "Middle button" to switch between the two modes.



**Auto mode:**

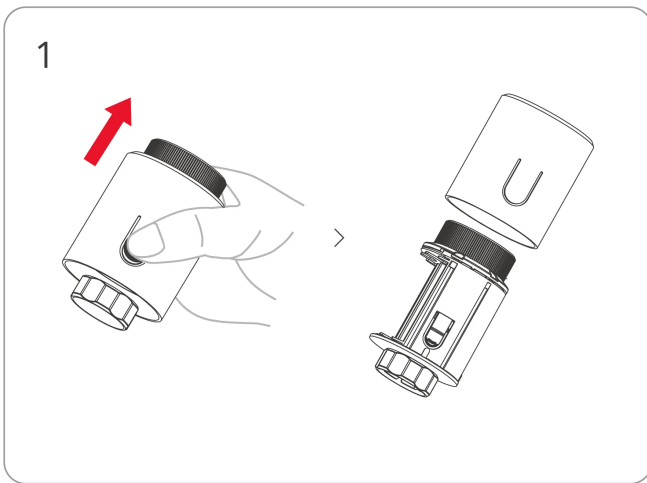
When “🕒” is displayed on screen, it means the auto mode is on



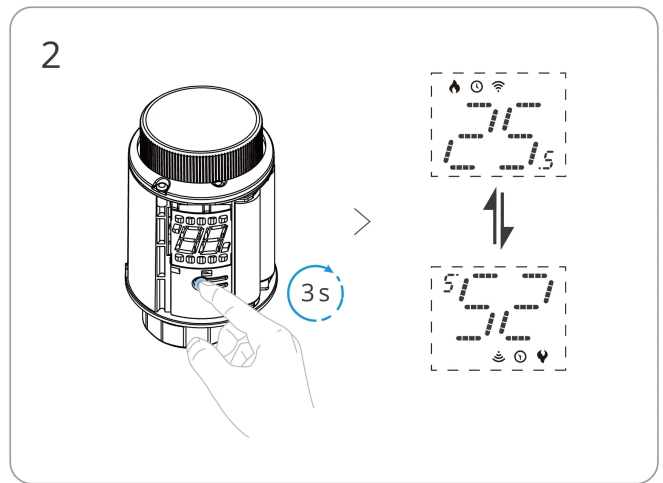
**Manual mode:**

When “🕒” disappears on screen, it means the manual mode is on

## Screen display rotation



Press the battery compartment latch while taking out the shell



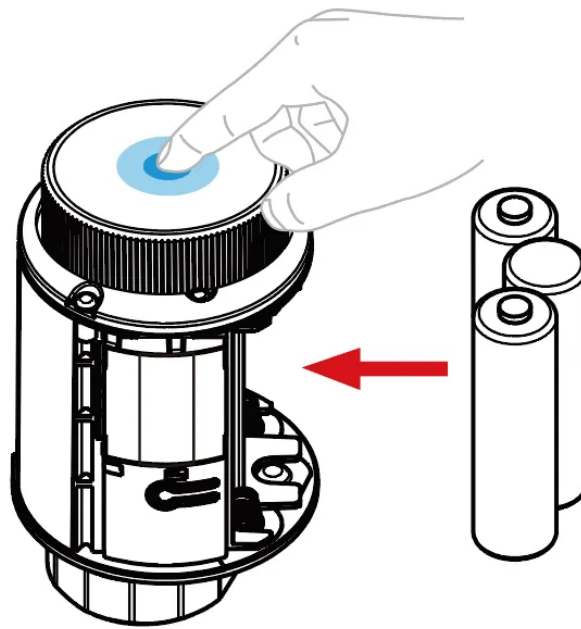
Press “Configuration key” for 3 seconds to change the screen display direction

## Error codes, problems and solutions

Error codes	Problems	Solutions
<i>F0</i>	Abnormal temperature sensor	Contact aftersales staff
<i>F1</i>	Slow valve operation	Check installation status and heating valve

F2	Excessively wide adjustment range	Check whether temperature controller is fastened
F3	Excessively small adjustment range	Check heating valve
F4	Battery runs out	Replace battery
F5	No valve detected	Check whether valve is installed

## Factory reset



Press “Middle button” for a longer time and at the same time put batteries in, then the screen displays “**F4**” and blinks for 3 seconds. After that, the device is reset to factory settings and is automatically restarted.

ⓘ All previous settings will be removed after the device is reset to factory settings.

## EU Declaration of Conformity

Hereby, Shenzhen Sonoff Technologies Co., Ltd. declares that the radio equipment type TRVZB is in compliance with Directive 2014/53/EU. The full text of the EU declaration of

conformity is available at the following internet address: <https://sonoff.tech/compliance/>

## For CE frequency

**EU Operating Frequency Range:**

Zigbee: 2405—2480 MHz

**EU Output Power:**

Zigbee $\leq$ 10dBm

Under normal use of condition, this equipment should be kept at a separation distance of at least 20 cm between the antenna and the body of the user.

## WEEE Disposal and Recycling Information



WEEE Disposal and Recycling Information All products bearing this symbol are waste electrical and electronic equipment (WEEE as in directive 2012/19/EU) which should not be mixed with unsorted household waste. Instead, you should protect human health and the environment by handing over your waste equipment to a designated collection point for the recycling of waste electrical and electronic equipment, appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. Please contact the installer or local authorities for more information about the location as well as terms and conditions of such collection points.

## CAUTION

### RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS

Do not short-circuit batteries.

Do not use new and old batteries together.

Do not use batteries of different types/manufacturers together.

Do not use batteries in reverse polarity

A battery which is leaking or has leaked before is not fit for use and should be thrown away.

Place the batteries into a plastic bag, without touching the batteries, put on gloves and an apron, then put it into a recycling box at an electrical store.

When the battery which is leaking or has leaked before, in some cases, the circuit board of your device may be damaged and will no longer work. In that cases, you should take your device to a Recupel collection point and the battery to a Bebat collection point.



1. This product is not a toy and not intended for use by children. For adult use only.
2. The appliance is suitable for moderate climates only.
3. The ventilation must not be impaired by covering the appliance with items such as newspapers, table cloths, curtains, etc.
4. Naked flame sources, such as candles, must not be placed on the appliance.

Scatola	Scatola	Manuale	Borsa	Borsa
PAP 20	PAP 21	PAP 22	CPE 7	PP
Carta	Carta	Carta	Plastica	Plastica
RACCOLTA DIFFERENZIATA				
Verifica le disposizioni del tuo Comune. Separa le componenti e conferiscile in modo corretto.				



**Manufacturer: Shenzhen Sonoff Technologies Co., Ltd.**

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Service email: [support@itead.cc](mailto:support@itead.cc) Website: [sonoff.tech](http://sonoff.tech)

Made in China



FR

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