



TRV527 Thermostatic Zigbee Radiator Valve

Quick Start Guide

Safety Handling

WARNING: Failure to follow these safety notices could result in fire, electric shock, other injuries, or damage to the actuator and other property. Read all the safety notices below before using the actuator.

- Avoid high humidity or extreme temperatures.
- Avoid long exposure to direct sunlight or strong ultraviolet light.
- Do not drop or expose the unit to intense vibration.
- Do not disassemble or try to repair the unit on your own.
- Do not expose the unit or its accessories to flammable liquids, gases or other explosives.

Technical Specifications

Operating Voltage	• 3*AA alkaline batteries
Working temperature	• 0-50°C
Display accuracy	• $\pm 0.5^{\circ}\text{C}$
Display Temperature	• 0~70° C
Connection	• M30 x 1.5mm
Dimensions	• 87*53*52.5mm

1

Equipment self-check



1. After power on, it displays all icons for 3s
2. When display "AD" before system self-check, press " " Start system self-check, when display "1", this is the first step of system self-check.
3. When Display "2", this is the second step for self-check. After the self-check is completed, if there is no fault prompt, it will enter the normal working state. If there is a fault prompt, please handle the fault firstly, otherwise it will not enter the normal working state.

Er1

Motor fault.

Er2

Sensor fault.



Flashing show low battery

2

Displays & Buttons

A	 Auto mode,  Manual mode,  Temporary manual mode
B	 Energy saving mode,  Comfort mode,  Automatic mode period
C	 Holiday mode, BOOST mode,  Open Windows Function
D	 Child Lock, SET Set temperature/ Advanced options,  Low battery,   Network status,  Valve status
E 	1. Short press to switch Auto mode and Manual mode 2. Long press 3s enter to Menu settings 3. When setting other functions, short press is the confirmation key.
F 	1. Short press to set parameter decrease 2. Long press to lock/unlock actuator
G 	1. Short press to set parameter increase 2. Long press for 3s to start the BOOST function: Turn on the BOOST fast heating mode. During operation, short press any key to exit this function and return to the original working mode.

3

Special Function description

Mode Selection	Long press  3s access to setting, short press "+" or "-" to choose set option1, then short press  enter option, press "+" or "-" to comfortable mode, energy saving mode, holiday mode. Short press  save the mode and return to home. Note: In the comfort, energy saving, holiday, valve force open, valve force close modes, short press  to return to manual or automatic mode.
Automatic mode	Short press  on the home to switch  mode, automatic mode programming setting requirements APP settings after network configuration.
Holiday Setting	Long press  3s access to setting, short press "+" or "-" to choose set option2, then short press  enter option, press "+" or "-" to holiday mode. First, setting the holiday temperature, then short press  again to set holiday day. Press "+" or "-" to adjust the value. In holiday mode, short press  to exit holiday mode.
Comfort mode	Long press  3s access to setting, short press "+" or "-" to choose set option4, then short press  enter option, press "+" or "-" to comfort mode to set temperature. Press "+" or "-" to adjust the value.
Energy saving mode	Long press  3s access to setting, short press "+" or "-" to choose set option3, then short press  enter option, press "+" or "-" to energy saving mode to set temperature. Press "+" or "-" to adjust the value.

4

Advanced Options

Press  about 3-5s to access to advanced setting, short press "+" or "-" to choose option 5, short press  access to advanced options, press "+" or "-" to adjust value, after finish setting every time, short press  to set next option, after finishing all, don't operate, after 10s it will automatically save and exit.

NO	Set up items	Setting parameters	Default
1	Measuring temperature correction	-9~+9°C (Displayed as the corrected room temperature value)	-1°C
2	Open window function parameter: temperature and running time	1: Open window temperature setting range: 5-25°C, when display "--" means disable open window function, press "+" key display 5°C means this function enable 2: Running time: 5-60min (after enable function, press  change setting)	--
3	Automatic lock if no operation more than 10 minutes	0: Disable 1: Enable	0
4	Setting temperature minimum limit	1-15°C	5°C
5	Setting temperature maximum limit	16-70°C	35°C
6	BOOST mode running time	100s-900s, Steps of 100 seconds	300

7	Reset	When display 88, press "+" or "-" change the value to 00, press  to restore the factory settings, and the screen will be fully displayed for 2 seconds.	
8	Descaling function	0: Disable descaling function 1: Enable descaling function	1

5

Configure Network

5.1 Before starting, you will need:

- A ZigBee Gateway

5.2 Adding to the gateway's network:

Follow the steps below to join the TRV to the gateway's network:

1. Wait for the TRV to be powered on and display "AD" or system self-check completed.
2. Set your gateway to permit joining.
3. Press and hold the key " for 3 seconds.
4. "  " Flashing means entering network configuration mode.
5. The TRV will join the gateway's network automatically and "  " stops flashing when successfully joined.

Please refer to the gateway manual for Zigbee gateway configuration.