ecobay

Smart Radiator Thermostat User Manual
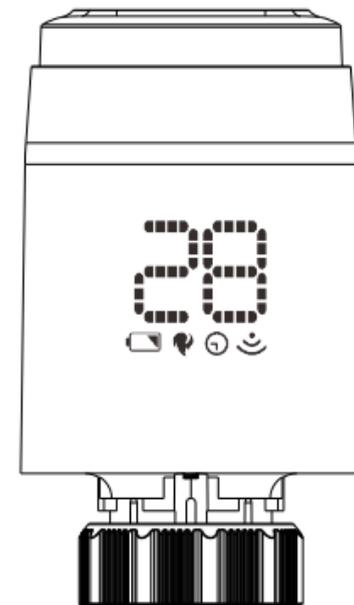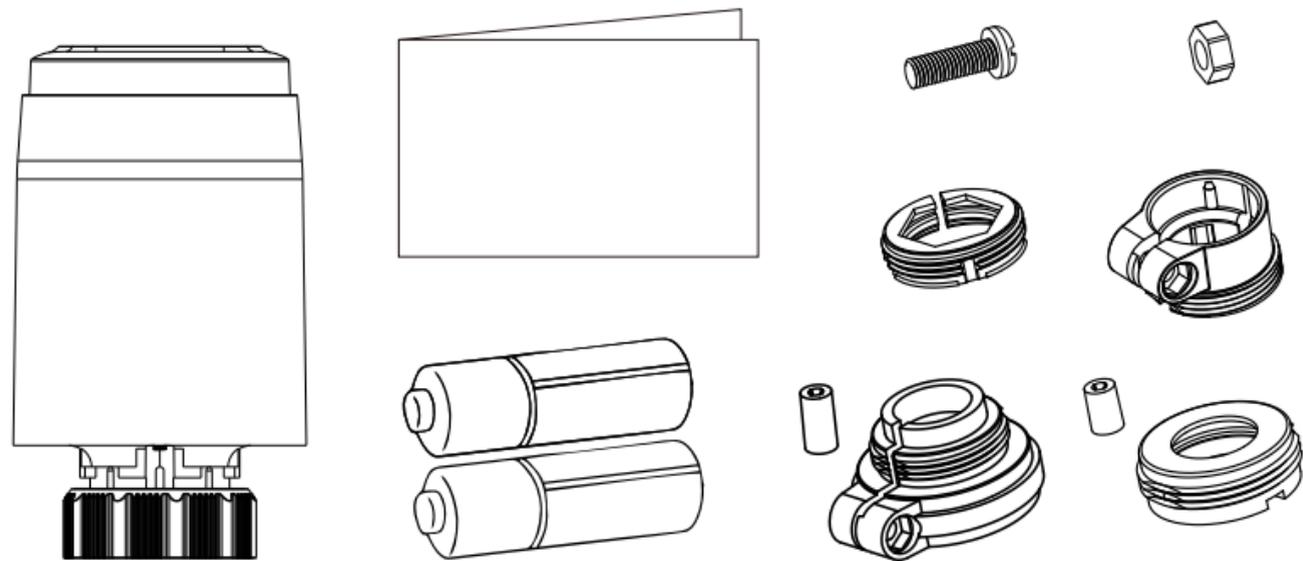
Content

TRV Specifications

Power Source: 2 AA batteries (Do not use rechargeable batteries)

Battery Lifetime: 1 year

Temperature Setting Accuracy: ±0.5°C

Room Temperature Display Range: 0°C-50°C

Operation Temperature Range: 5°C-30°C
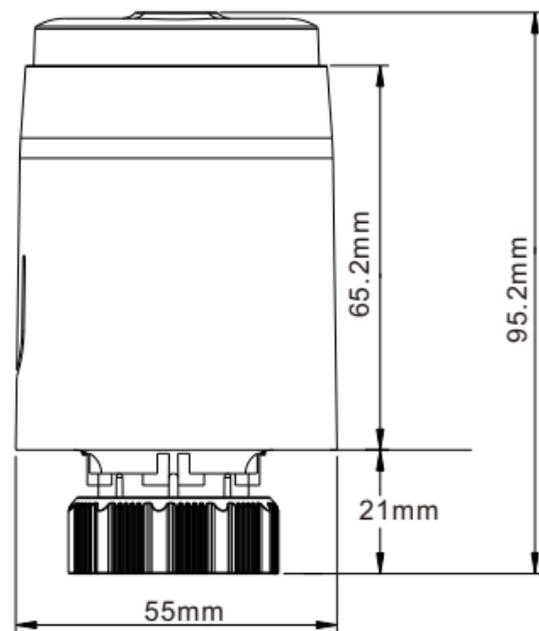
Shipping & Storage Temperature Range: -10°C-60°C

Frequency: 2.4 Ghz

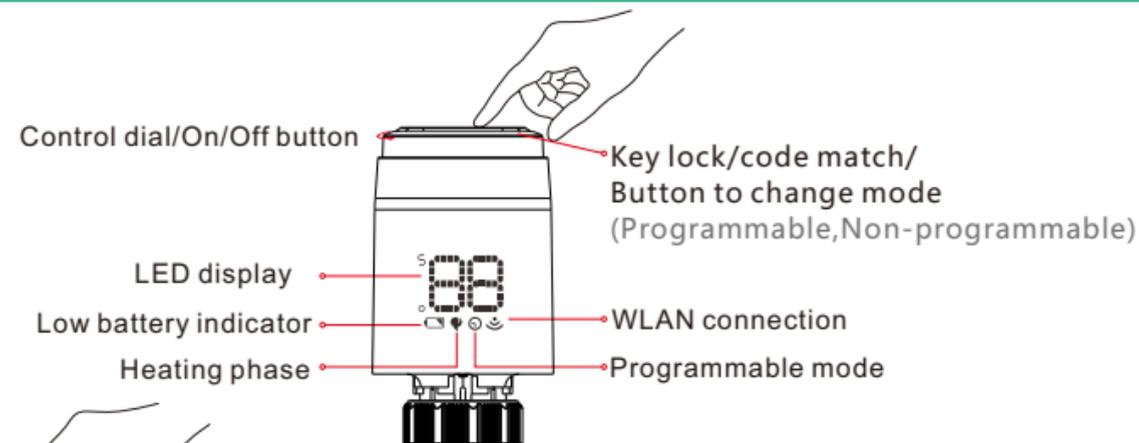**Wireless Transmission Range:** Up to 30 meters in open space

Display: LED screen

IP Rating: IP21

Connection: M30 x 1.5 mm

65.2mm

95.2mm

21mm

55mm

Controls and displays

Control dial/On/Off button

Key lock/code match/
Button to change mode
(Programmable,Non-programmable)

LED display

Low battery indicator

WLAN connection

Heating phase

Programmable mode

◆ IMPORTANT:

In " `OF` " state, press the control dial 5 times
continuously to reverse the value display.

Battery Installation

1

Press the buckle to take off the cover.

⚠️ **Warning**

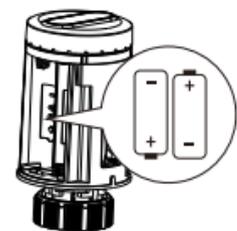Do not unplug this control dial while installing the battery.

Thumbs lightly press here

2   **3**
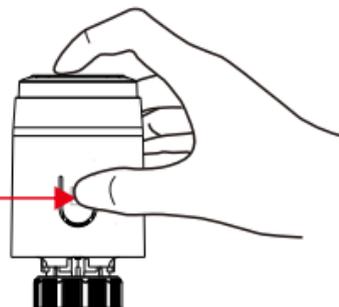
2AA battery

Gently pull up the housing cover while pressing down on the control dial with the index finger.
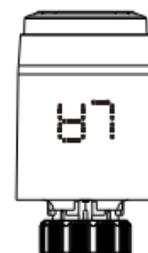
* Insert the batteries checking the polarities (+ / -) are correcly aligned.
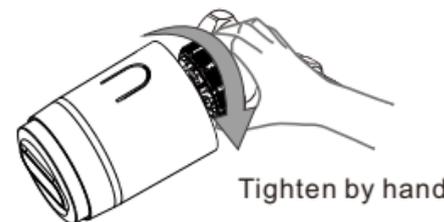
Fitting on the radiator valve

❶ "Lℛ" flashing on the display.

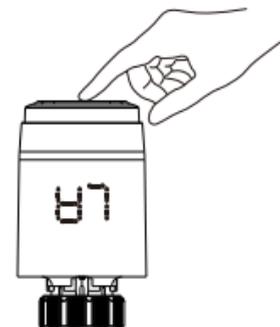❷ Once valve needle is flush with the base.

❸ Install TRV with M30*1.5 screw thread Interface of valve .Tighten the plastic ring.
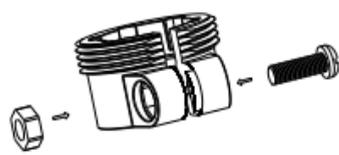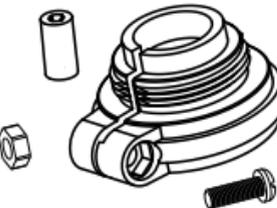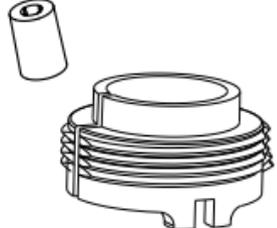
❹ Press the control dial lightly. The "Lℛ" display starts to flash. The radiator thermostat now carries out an adaptation run.

Tighten by hand

＊Tips: After tightening by hand, do not use a wrench to twist it twice, in case too much force and damage the plastic ring.

Adapter selection

Please confirm valve diameter

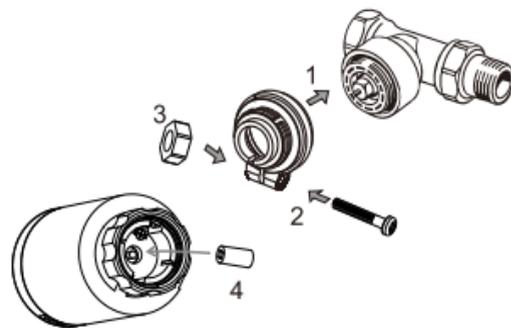| Danfoss		Caleffi	Giacomini
1/2 valve （RA）	3/4 valve + long plunger	1/2 valve	1/2 valve + short plunger

Fitting the adapter

Danfoss 1/2 valve (RA)

Please tighten the screws after fixing the valve connector.
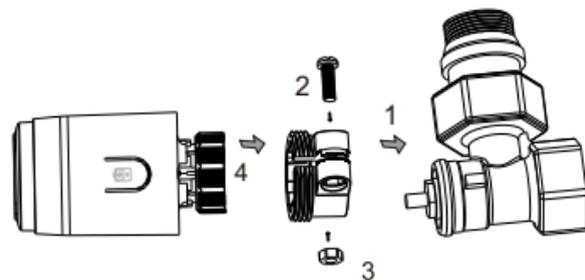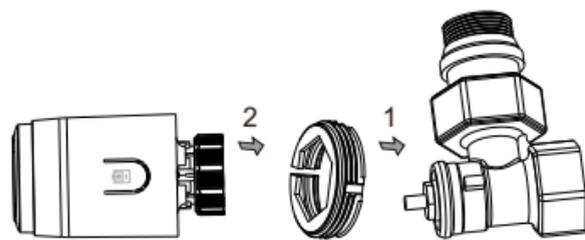

Danfoss 3/4 valve

Put the adapter directly on the valve. Tighten the screws. Put a long plunger at bottom of the thermostat.
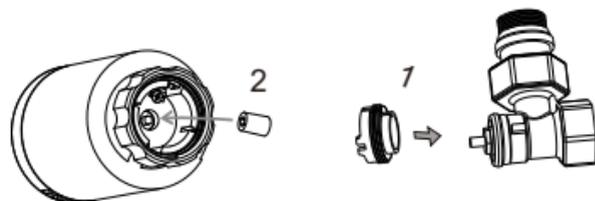
Caleffi `1/2 valve`

Put adapter directly on the valve.

2   1

Giacomini `1/2 valve`

Put adapter directly on the valve.
Put a short plunger at bottom of the thermostat.

2   1

Configuring the thermostat

⏻ ON / OFF

- If the temperature is set at <5°C, "OF" appears in the display.
- If the temperature is set at >30°C, "On" appears in the display.

🔲 Window open detection

- If a window is opened while the heating is on, the radiator thermostat automatically will stop the heating process when the temperature falls rapidly. (Temperature drop 6°C within 4 min)

- "OP" appears in the display. As soon as the window is closed and the temperature has risen again by 3°C, the radiator thermostat automatically returns to normal operation.

🛡 Limescale protection

- If the radiator valve is not opened for two or more weeks, this can cause limescale to build up in the valve.
- To prevent this, the radiator thermostat opens the valve for 30 seconds every two weeks. The display shows "Ad" during this process.

🔒 Child lock

- Press and hold the control dial for approximately 5 seconds to activate the child lock function.
- " LC " appears in the display.
- Child safety can be disabled by pressing the control dial for 5 seconds.

Geofencing function (Only for IOS)

When the thermostat detects no one at home, it will stop heating to save energy.
User could set all settings through APP.

❄ Anti-frost protection

• In Off mode, the display shows " 🔥 " .
• If the temperature falls below 5°C, the thermostat automatically activates the heating.
• Heating continues until the temperature reaches 8°C. The thermostat then switches back to Off mode.

🔔 Alarm

If an error occurs in the sensor, " Er " appears in the display.

🔋 Low power alarm

If the battery voltage is low, the symbol " 🔋 " appears in the controller display.

Default programming (4 period programming)

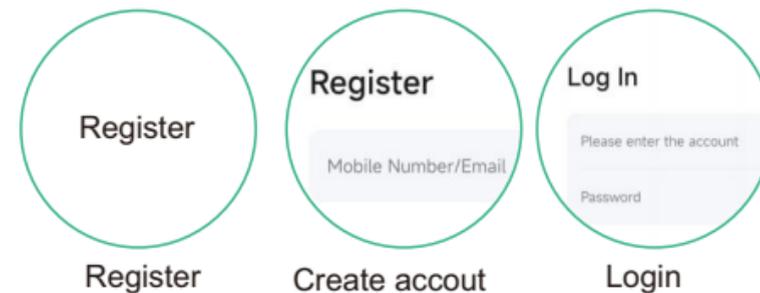| ☼		🏠		🏠		🌙	
Wake up		Out door		Back home		Sleep	
6:00	20°C	8:00	16°C	18:00	20°C	22:00	16°C

Link APP (Login)

Download:

Click App store or Android application market to download "Tuya Smart "app.

Tuya Smart

Registration and Login:

Click the "Register" to create account.
Enter your account password to log in

Register

Register

Register

Mobile Number/Email

Create accout

Log In

Please enter the account

Password

Login

Link APP (Add devices)

✱ Tips

Preparation before connecting to the gateway.

1.Wifi and Bluetooth functions must be turned on when connecting to the device

2.Make sure your device and the gateway are in the same network
 (only supports 2.4Ghz network, not 5Ghz network connection)

3.Power on the gateway and make sure the red light on the gateway is flashing (network configuration status).
 If it is not flashing, press and hold the gateway switch for 5 seconds to reset the gateway settings.
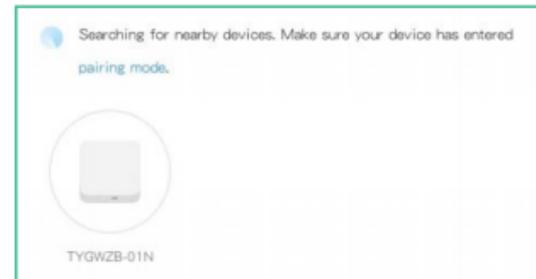
Add gateway:

1 Enter the "HOME" interface of the app, and click the "Add device".

2 In the "Add Device" interface, wait for scanning until the gateway icon appears, and click the icon to proceed to the next step.
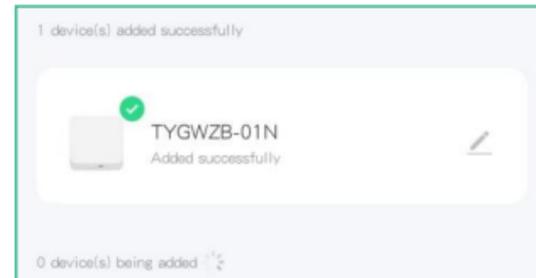

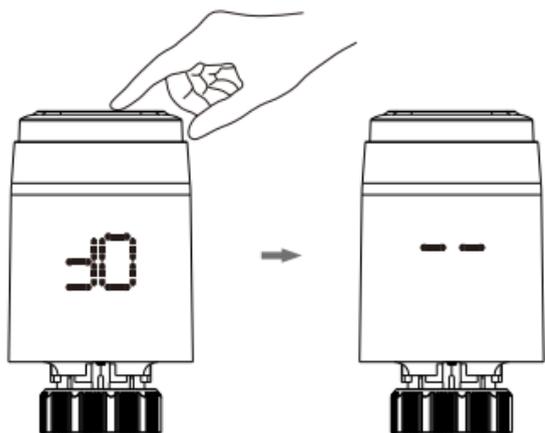**3** Select a network in the same area, enter the password, and click Next.

4 Wait for the gateway to connect. After the connection is complete, click Done to complete the gateway pairing.
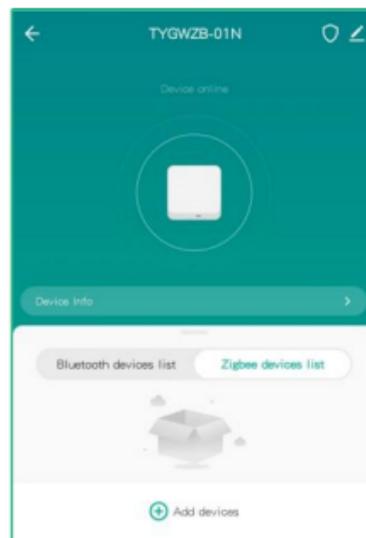
Add TRV

＊ Tips

Gateway must be added before adding the devices.

① For TRV: In " OF " state, long press control dial until the screen show " $\texttt{--}$ " .

② **Zigbee Device Connection**
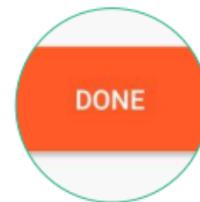Enter the gateway interface, click the Zigbee device list, and click "Add device

③ Search device
Wait a few seconds until the TRV appears " PA "

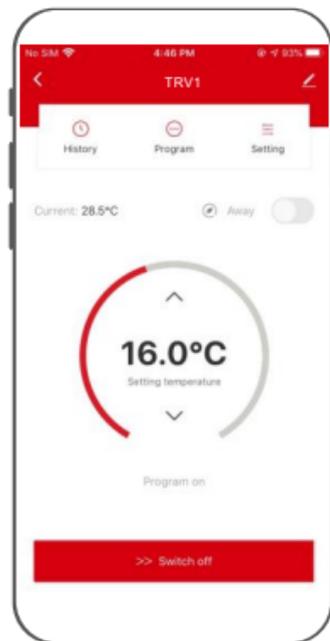④ Select the type of device you want to add (TRV) .

⑤ Click "Done", it means the TRV added successfully.

Temperature setting

After the TRV is added successfully, we can control the device through the APP.
Press ∧ or ∨ for increase or decrease of the temperature.

✻ Tips

Under the TRV programming function:
Adjusting the temperature on the current interface will only be effective in the current period of time but recovers the original programming in the next period of time.

Power On/Off setting

Click ">> Switch off" and drag to right to turn the power off.
Click "<< Switch on" and drag to left to turn the power on.

>> Switch off
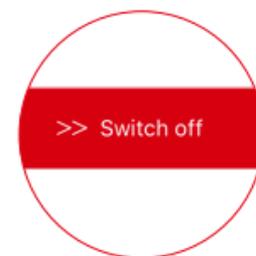
✻ Tips

If you will be away for a long time, and no heating equipment is required at home, you can directly switch it off. The thermostat will automatically enter the "anti-freezing mode", which is started at the room temperature less than 5℃ and closed at the room temperature over 8℃, so as to prevent the radiator from heating failure because of being frozen.

Programming setting

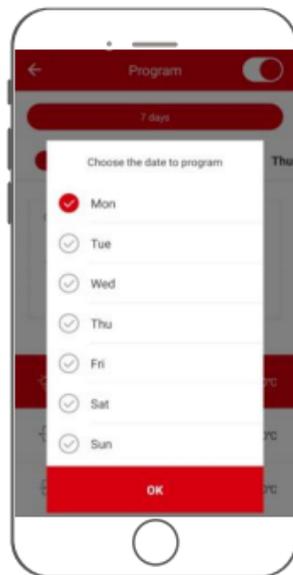**1** Click "program" to enter the programming interface.
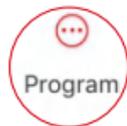
Program

2 Select the period of time of 7-day programming, press "∧" or "∨" to set temperatures in the different periods of time.
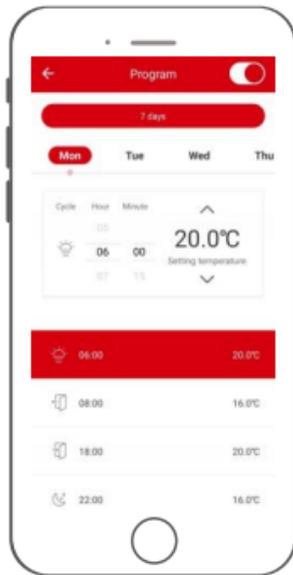
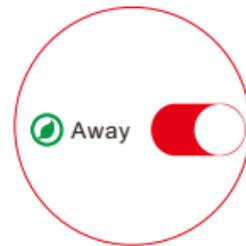**3** Enter the programming interface and then click the "7-day" key.

7 Day

4 Click the day to be edited and confirm it.

Temporary leaving setting

1 If you need to stay out temporarily,please click " " key.

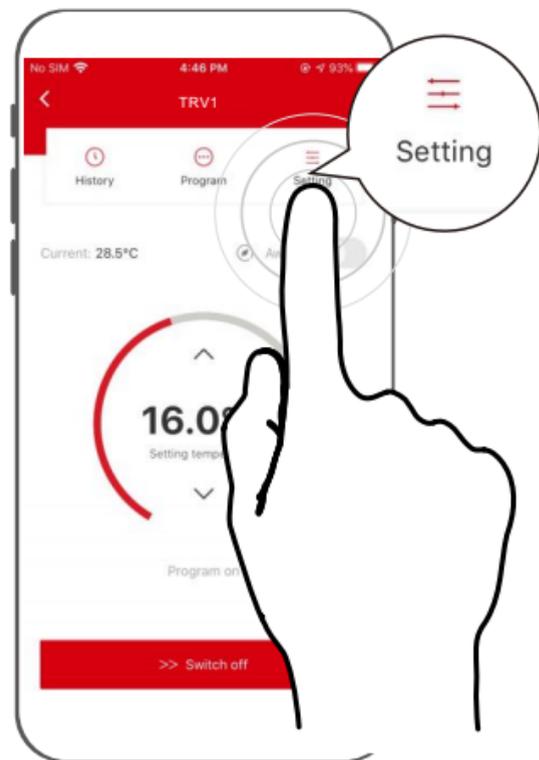The temperature will remain at 16°C, the energy-saving icon " " turns green.

Away

2 After you arrive home, click " " key to recover the previous temperature setting.

TRV displays" LH "
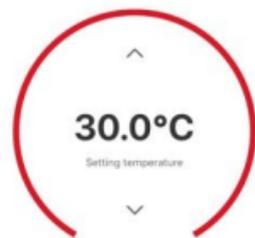
Implicit parameter setting

Setting

🕐 Manual setting time	off ⟩
🌡 Temperature calibration	0℃ ⟩
⊙ Water scale proof	on ⟩
❄ Antifreeze	On ⟩
⊞ Window	On ⟩
🔒 Lock	On ⟩
External temperature	On ⟩

Slide up and down to view more parameters

30.0°C
Setting temperature

Program on
Linkage
Set Linkage

19

2022Y9M14D 9H9M

Note: the current time is gateway system time
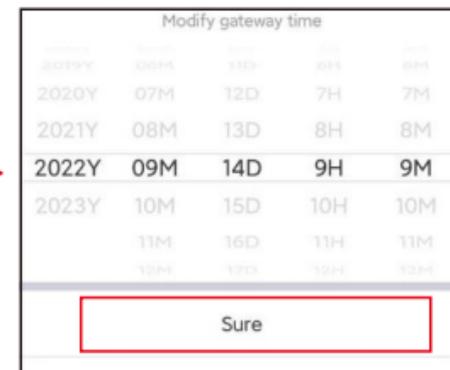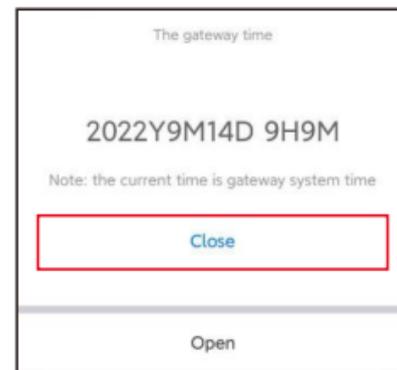
Close

Open

Modify gateway time
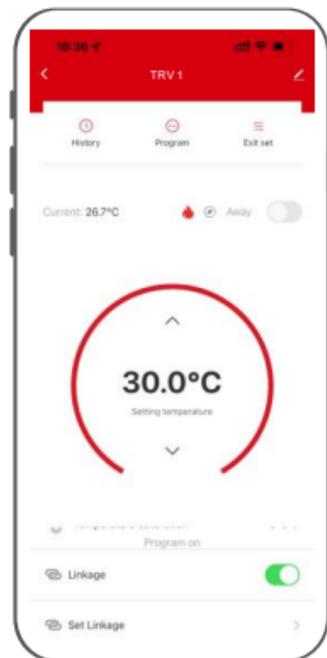
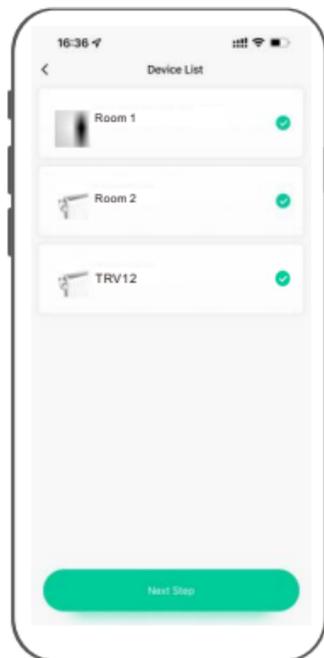| 2022Y | 09M | 14D | 9H | 9M |
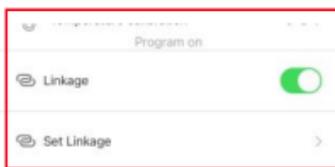
Sure
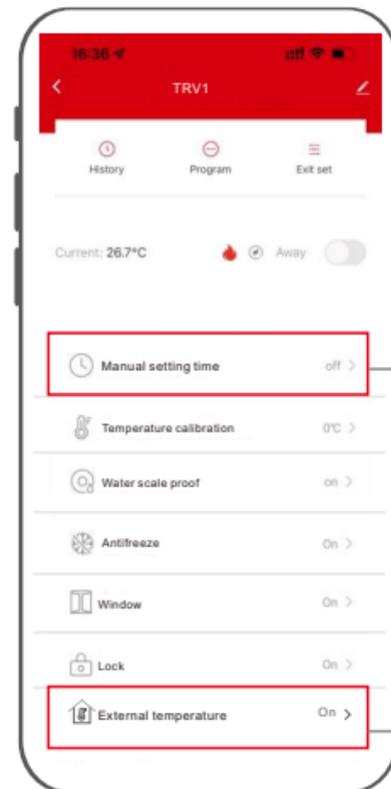
Click here to set time manually.

Click "On" if the device uses external temperature.
Click "Off" if the device is the master controller.

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Linkage Setting

❶ Click "Set Linkage"

❷ Select the device you need to add, click "Next Step"
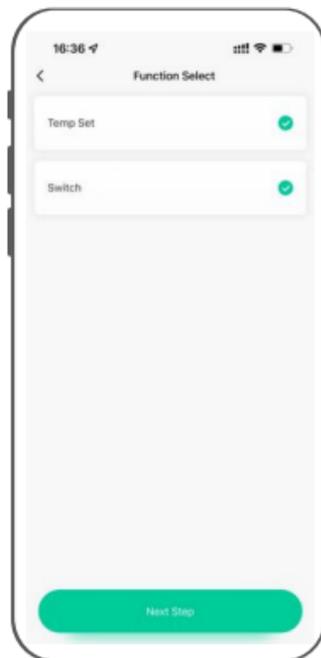
❸ Select the function you need to adjust, click "Next Step"

Master control switch

When you set a master control, the icon turn green.
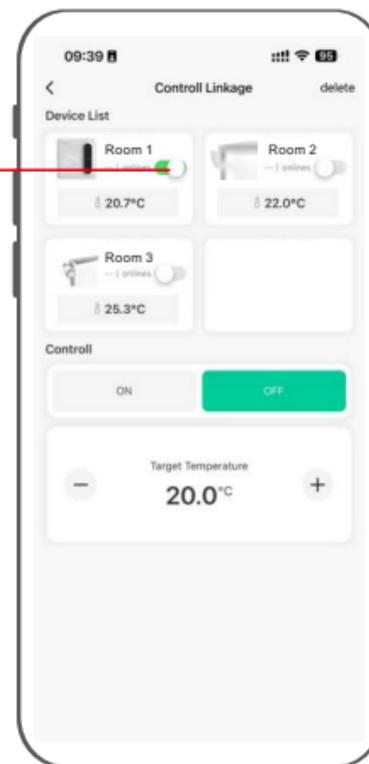
Linkage group function:

When there are multiple TRVs in a house, you can create a group to achieve centralized control of multiple TRVs. Each group has a master control, and other TRVs in the same group will work according to the master control (on/off/set temperature).

The master controller can be a temperature sensor SAS936RHB-7-Z03 or any TRV in this group.

One house can exist several groups.

★ Tips: Remember to set the external temperature on in the slave device setting interface, and set the external temperature off in the master controller setting interface.

Exit network/Remove devices
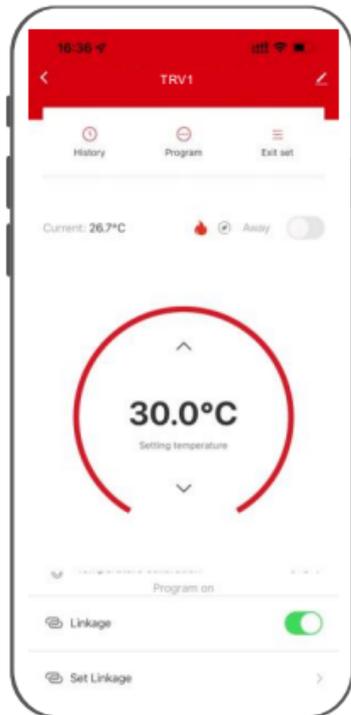
❶ Click the button" ✏ "in the upper right corner.

❷ Click "Remove device".

Voice command:

After waking up the speaker, you can say:

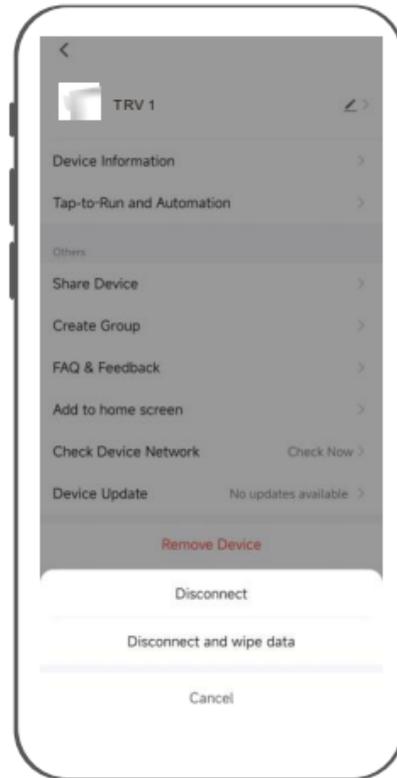| Amazon Alexa	Google Assistant
* Turn on bedroom.	* Turn on bedroom.
* Turn off bedroom.	* Turn off bedroom.
* Raise the bedroom by 1 degree.	* Raise the bedroom by 1 degree.
* Drop the bedroom by 1 degree.	* Drop the bedroom by 1 degree.
* Set the bedroom to 16 degrees.	* Set the bedroom to 16 degrees.
* What is the temperature of bedroom?	* What is the temperature of bedroom?
	Tips:you need connect to the Google speaker

* Tips: bedroom is the device name. You can name it by yourself.
* The temperature unit of thermostat and speaker must be the same.

Wirelss Connection Diagram
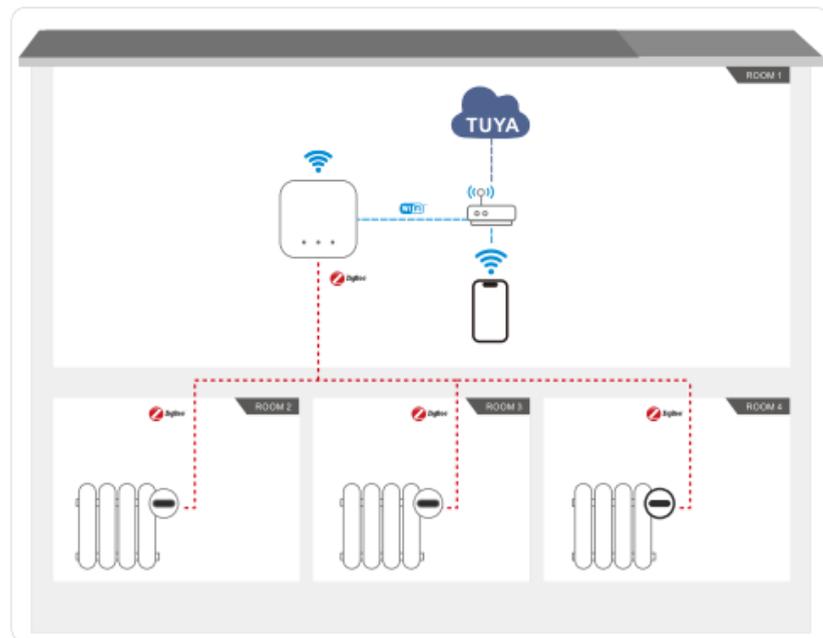
3*trv+gateway

The system can be expanded to include any number of Hama radiator thermostat.

Wirelss Connection Diagram

3*trv+sensor+gateway

Add a master controller(temperature sensor) to group control the trvs

WARNING

Care and Maintenance

Disconnect the device from the mains before cleaning and during prolonged periods of non-use.
Only clean this product with a slightly damp, lint-free cloth and do not use aggressive cleaning agents.
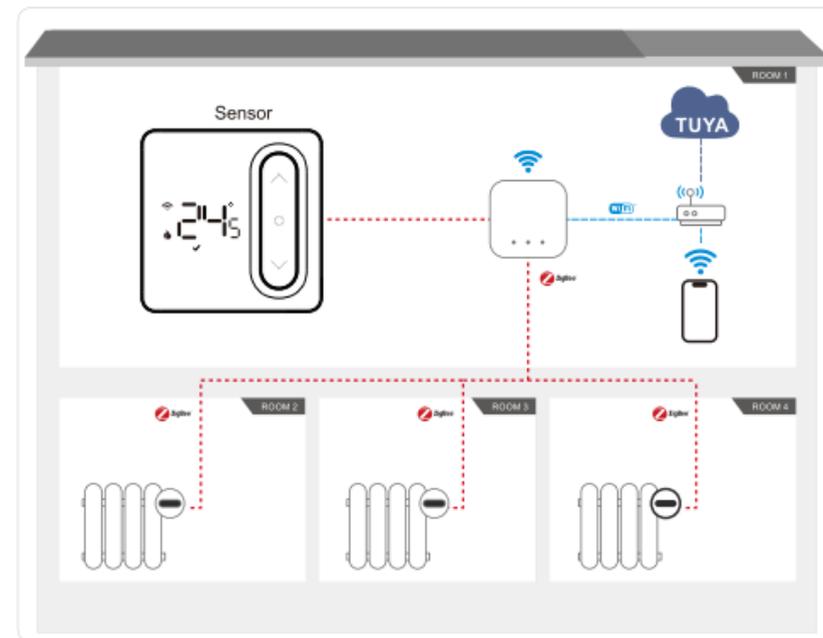
Warranty Disclaimer

ECOBAY assumes no liability and provides no warranty for damage resulting from improper installation/mounting, improper use of the product or from failure to observe the operating instructions and/or safety notes.

Service and Support

Please contact ECOBAY Consulting if you have any questions about this product.

Note on environmental protection:

After the implementation of the European
Directives 2012/19/EU and 2006/66/EU in
the national legal system, the following applies:

electrical and electronic devices as well as batteries must not be disposed of with household waste. Consumers are obliged by law to return electrical and electronic devices as well as batteries to the designated public collection points or to the point of sale at the end of their service lives. Detailed information on this topic is defined in the national laws of the respective country. This presence of the above symbol on the product, operating instructions or package indicates that the product is subject to these regulations. By recycling, reusing the materials or other forms of utilising old devices/batteries, you are making an important contribution to protecting our environment.

Declaration of Conformity

ECOBAY hereby declares that the radio equipment type of SEA888-Z03 is in compliance
with Directive 2014/53/EU.
Frequency band(s) 2.4 GHz
Maximum radio-frequency power transmitted < 100mW

$C\,E$

SEA888-Z03

Manufacturer Name: SHENZHEN SASWELL TECHNOLOGY INC.
Address: Room 1601-1602, Building4, Tianan Cloud Park, Bantian Street,Longgang
District,Shenzhen,518129, China
E-mail: amazon@saswell.com

Battery Safety Warning: Use only specified batteries.

Batteriesicherheitswarnung: Verwenden Sie nur die angegebenen Batterien.

Installation Warning: Ensure batteries are inserted correctly.

Installationswarnung: Stellen Sie sicher, dass die Batterien korrekt eingelegt sind.

UK	REP

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United Kingdom, EC2R 8AY
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UK001723714619462iiZq