

RADIATOR THERMOSTATIC HEAD THZ

INSTALLATION
AND USER GUIDE



PRODUCT DESCRIPTION

Radiator thermostatic head THZ controls heat output of one heating device: radiator or convector. It is installed on the thermostatic valve of heating device. There are adaptors for any valve in standard set.

THZ has colourful touch screen display showing all settings. It can be set on the display or on mobile application Smart Life or Tuya Smart.

MAIN FEATURES

- Weekly program
- Economy mode
- Battery life 3-4 years
- Low temperature protection
- Open window detection
- Holiday function
- Temperature compensation
- Dead zone adjustment
- Temperature curve
- Time display
- Screen brightness adjustment

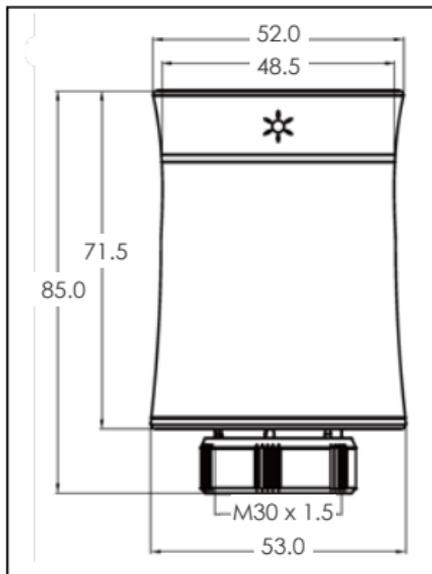
TECHNICAL SPECIFICATIONS

Power supply	3V, 2 x AA batteries (not included)
Max stroke	4,5 mm
Temperature accuracy	$\pm 0,5^{\circ}\text{C}$
Set temperature range	5 – 45°C
Display temperature range	0 – 70°C
Ambient temperature	0 - 45°C
Ambient and storage humidity	5 - 95% RH (Non-condensing)
Storage temperature	-10 to 45°C
Timing error	< 1%
Protection class	IP20
Buttons	Capacitive touch buttons
Dimensions	85 x 53 mm

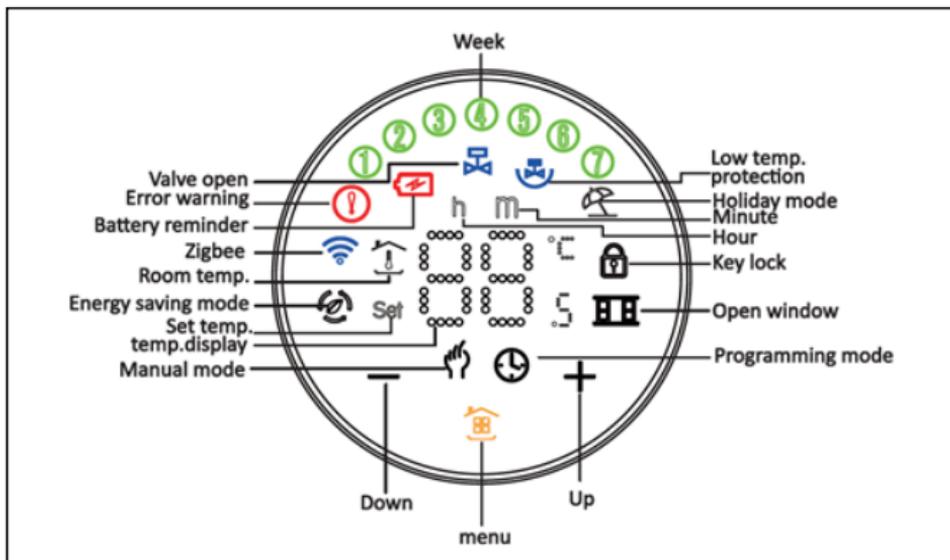
STANDARD SET

Thermostatic head	1 pc.
User Guide	1 pc.
RA adapter	1 pc.
RAV adapter	1 pc.
RAVL adapter	1 pc.
Comap adapter	1 pc.
T+A Herz adapter	1 set
T+A Herz adapter	1 pc.

DIMENSIONS

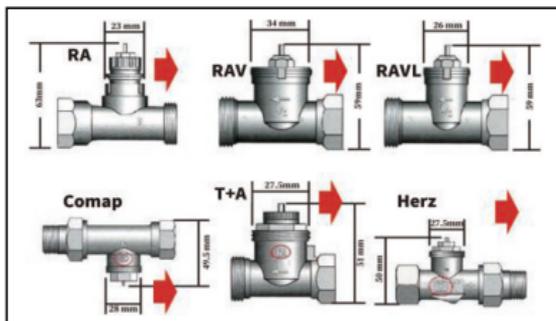


DISPLAY ICONS EXPLANATION

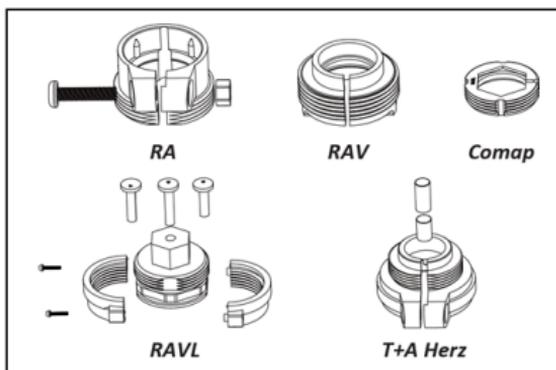


INSTALLATION

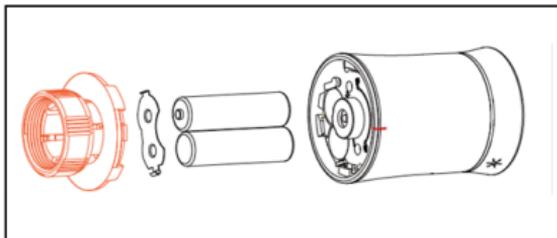
Step 1. Select the adapter. TRV is usually connected with M30 x 1.5 mm valve. If you have different valves, please determine your valve type according to the picture below and choose the correct adapter from the package.



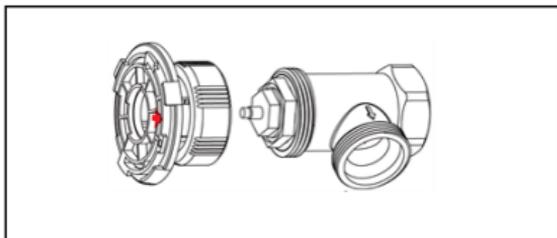
Step 2. Install the adapter. Install the adapter on your valve as the picture below. If you don't need an adapter, please ignore this step.



Step 3. Remove the mounting plate of the thermostat (red coloured in the picture below) by turning it counterclockwise.

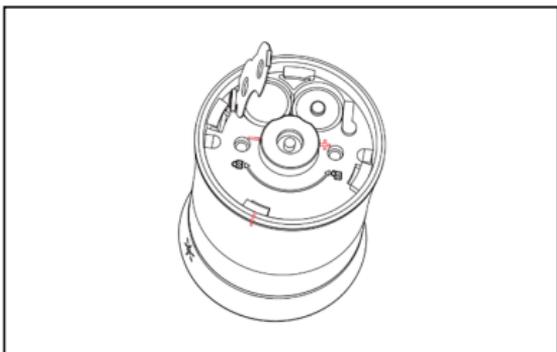


Follow the instructions in the figure on the right to install the mounting plate on the valve. Pay attention to the red label in the picture.



Step 4. Install batteries.

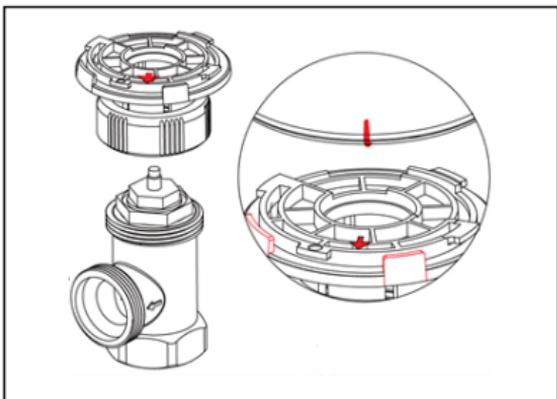
Follow the picture on the right to install the battery in the correct direction. After the battery is installed correctly, the thermostat will be turned on. At this time, click  (only once), the thermostat will display and flash „F1“, when the „F1“ stops flashing, the thermostat is ready for installation.



Step 5. Connect the thermostat and the mounting board. When „F1“ stops flashing, find the „mark point“ of the thermostat, shown in the picture on the right. Turn clockwise to complete the connection between the thermostat and the mounting plate.

After clicking  (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 Thermostatic Head is turned on, it will enter the self-check program, and all icons will be displayed firstly. Press , the screen will flash „F1“, indicating that the temperature control valve is shrinking. When „F1“ stops flashing, press  again. The screen will display „F2“, indicating that the temperature control valve is measuring the stroke. When the screen displays the

room temperature, it indicates that the THZ has completed the stroke measurement, and you can start using it normally.

2. Mode selection. Press  to switch between manual, programming, vacation modes.

a. Manual mode . In this mode, the device executes manual temperature setting.

b. Programming mode . In this mode the device executes a preset week programming temperature time and temperature.

c. Holiday mode . In this mode the temperature is set to 15°C. The vacation mode lasts for 10 days. After 10 days, the device will automatically switch to programming mode.

d. 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 pressing +/- keys.

Press  again, the screen will display "m", indicating that the minute is being set. Set the minutes by pressing +/- keys.

Press  again, the screen will display "number", indicating that the day of the week is being set. Set the day of the week by pressing +/- keys.

Press  again, the screen will flash "number, h, m", indicating that the number of days in the vacation mode is being set. Set the number of days in the vacation mode by pressing +/- keys.

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

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

7. Manual editing. Press and hold for  3 seconds. You will see the flashing numbers on the screen. Press  4 times to skip the clock setting.

When the screen displays "①②③④⑤" (means Monday to Friday) and flashing numbers and "h". Set the hours with "+" and "-".

Press  again. Flashing numbers and "m" will appear. Set the minutes with "+" and "-".

Press  again. The screen will display "Set". Set the temperature with "+" and "-". 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		Sat		Sun	
	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 "-" and  for 3 seconds together, entering the advanced settings. The screen will display "A1". After 2 seconds, the number (settings and options) will display, and the options can be set by the "+/-" keys.

Code	Function	Options	Default
A1	Temperature compensation	-9 to 9°C	-2
A2	Open window detection At room temperature 5-N°C (see the setting A3): when temperature drop is > 3°C in 5 min., THZ closes the valve	00: Disabled 01: Enabled	00
A3	Valve closing temperature when open window detection is enabled. When A2 is set to „01“, the device detects whether the room temperature has dropped by N°C compared to the previous time	N: 5 – 25°C	5

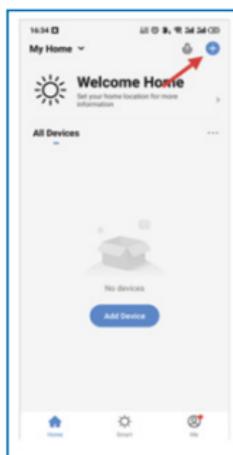
A4	Valve closing time when open window detection is enabled	5 – 60 min.	5
A5	Minimal temperature	5 – 15°C	5
A6	Maximal temperature	15 – 35°C	35
A7	Forced heating countdown	100 – 900 sec.	300 (screen displays 30)
A8	Detection valve head opening	ON: opened OF: closed	
A9	Dead zone temperature	0,5 – 5°C	1
AA	Energy saving mode	00: Disabled 01: Enabled	00
AB	Energy saving mode temperature	5 – 35°C	20
AC	Low temperature protection	0 – 10°C	5
AD	Standby screen brightness	0 – 9	0
AE	Reset factory defaults	00: Reset 01: Do not reset	00
AF	Version number	U1	

TROUBLESHOOTING

Error	Failure description	Solution
 icon + screen display E1	The temperature sensor is disconnected or short-circuited	Contact seller for replacement
 icon + screen flashing E2	The THZ cannot detect the stroke	Reinstall the battery
 icon	Battery voltage is low	Replace the batteries

CONNECTING TO ZIGBEE

Step 1. Download mobile application Smart Life. Search for "Smartlife" in the Apple Store or Google Play or scan the QR code on the right and follow the instructions of the APP to complete the installation.



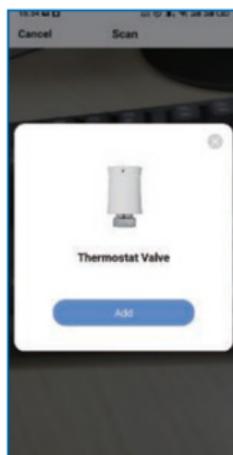
Push "+"



Select "Auto Scan"

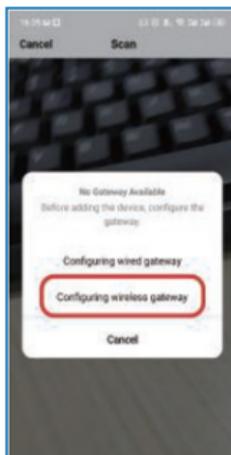


Scan this QR code

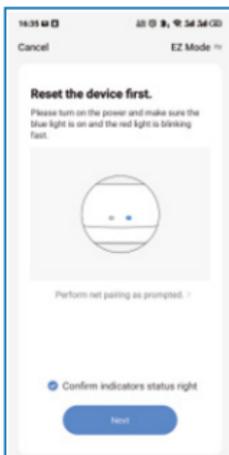


Push "Add"

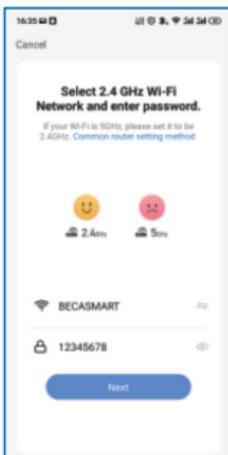
Note: Tuya ZigBee wireless gateway is used by default. If you use a wired gateway, please check your gateway connection tutorial.



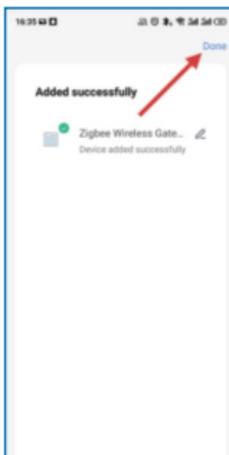
Select "Configuring wireless gateway"



Reset your gateway, confirm indicator status and push "Next"



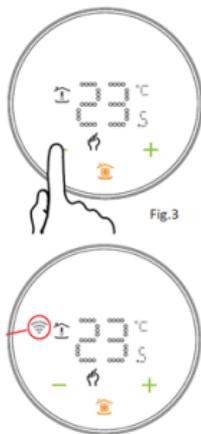
Select 2,4GHz Wi-Fi network and enter password



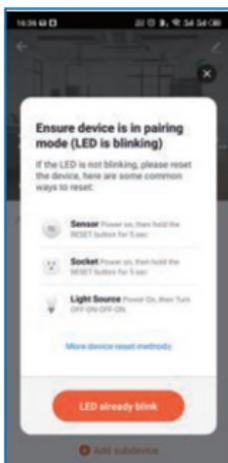
Push "Done"



Push "Add subdevice"



Press "-" for 3 sec. The "Zigbee" icon will flash on the screen

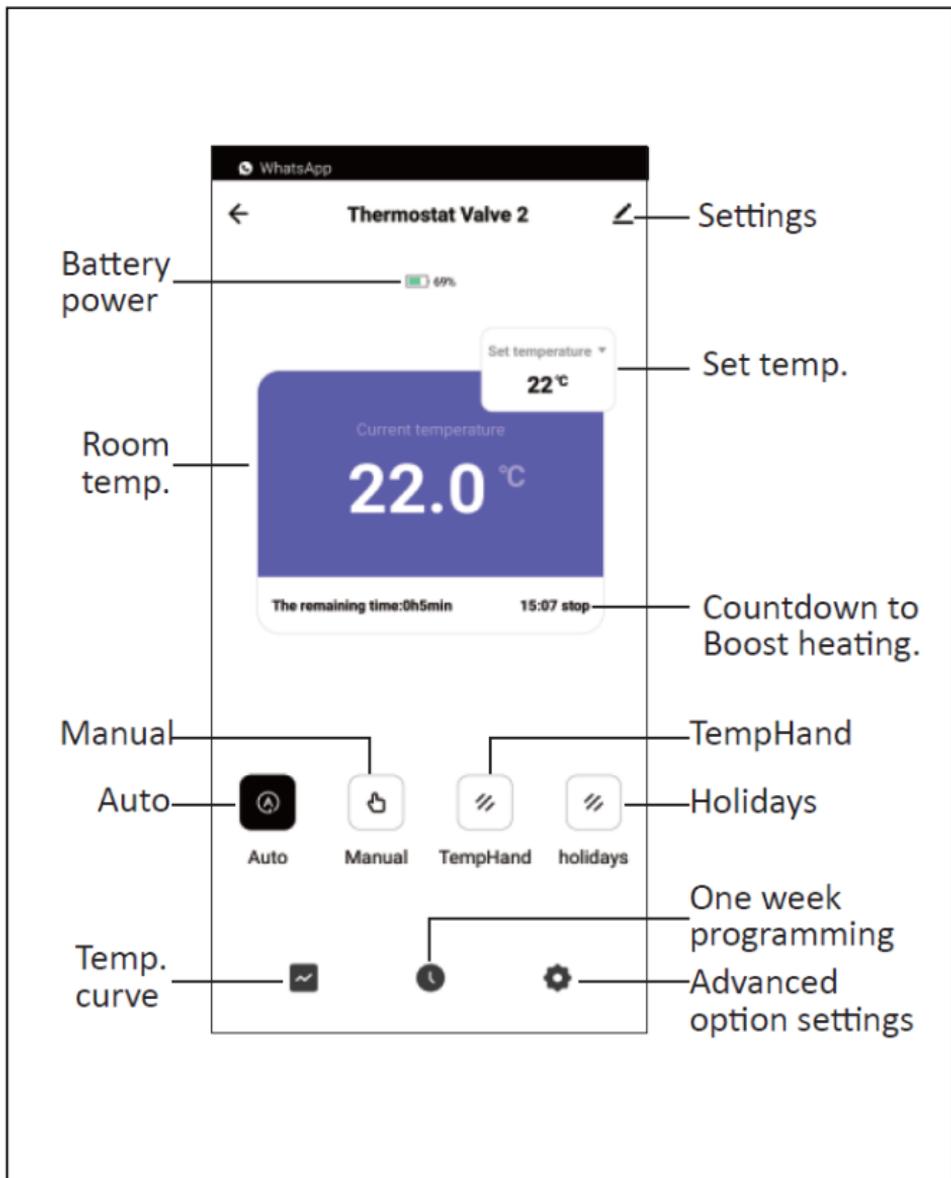


Confirm that LED is blinking



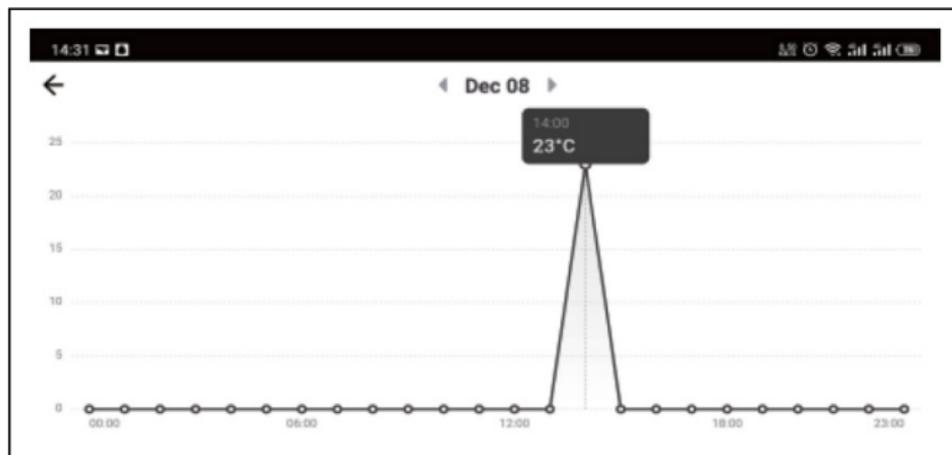
Push "Done"

APP INTERFACE DESCRIPTION



TEMPERATURE CURVE

According to the temperature curve, you can understand the temperature change over time.



WARRANTY

The thermostat comes with a 24-month warranty. If the thermostat breaks down either during the warranty period or afterwards, or if you have any uncertainties, please contact us:

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