

# PRODUCT MANUAL

version 2023.09.19

## THERMOSTATIC VENTIL

### COMFORT SERIES HT-10R MODEL



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# Thermostatic Radiator Valve

HT-10R

This is a smart radiator thermostat that gives you easy in-home control of each individual radiator. By include a wifi & 868mhz gateway, you can control all radiators from smartphone anytime anywhere.

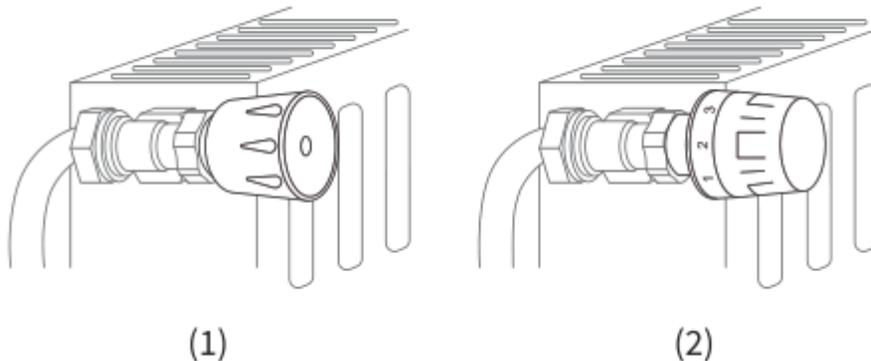


## Warning

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**Read this instructions carefully before you get started.**

- a. The device is for indoor use only and must be protected from damp and dust as well as solar radiation
- b. The device is for water based radiator ONLY, any other kind of radiator is NOT supported.
- c. There are two types of radiator valves: manual valves (1), and thermostatic valves (2)



**Thermostat valves (Usually with numbered graduation marks from 1 to 5) can be easily replaced with smart radiator thermostat valve.**

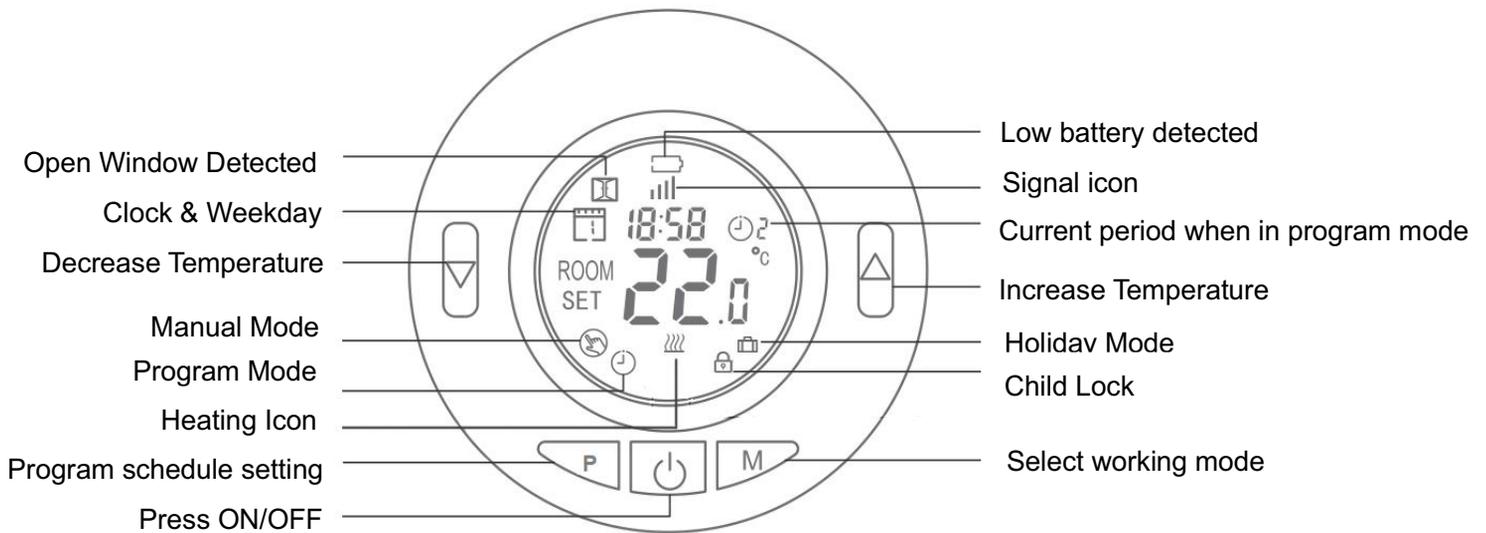
Note: If you have manual valves, please leave them as they are or call a professional to replace them.

# Thermostatic Radiator Valve

HT-10R

## LED and Buttons Explanation

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## Functions

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- ✓ Remote Control (Both Android & IOS )
- ✓ Voice Control(Amazon Alexa or Google Assistant)
- ✓ Weekly programmable (4 periods/day)
- ✓ Frost Protection
- ✓ Open Window Detection (OWD)
- ✓ Child Lock
- ✓ Easy for installation
- ✓ The display shows the set temperature or measured temperature, time.
- ✓ Temperature display in degrees Celsius

## Technical Data

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Thermostat operating voltage:	2 x AA1.5 V, alkaline batteries.
Settings storage:	Yes
Switching options:	7 days programming (4 periods/day)
Frequency:	868Mhz
Temperature settings:	5°C ~ 35°C, in 0.5°C
Accuracy:	± 1°C
Control:	PID
Thermostat dimensions:	φ55*69mm
Max. Valve Stroke	5.0mm
Color:	White
IP protection rating:	20.

# Thermostatic Radiator Valve

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## Hardware & APP Installation

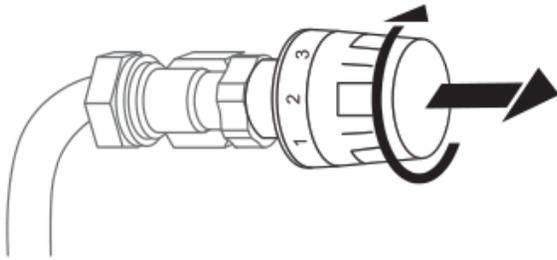
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Before we get started.

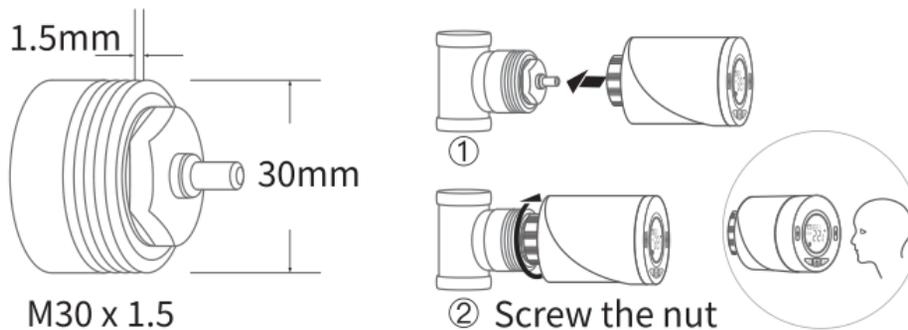
2\*1.5V AA batteries are required for radiator thermostat to work. Please get prepared.

A Tuya smart zigbee gateway is required for the smart thermostat to work.

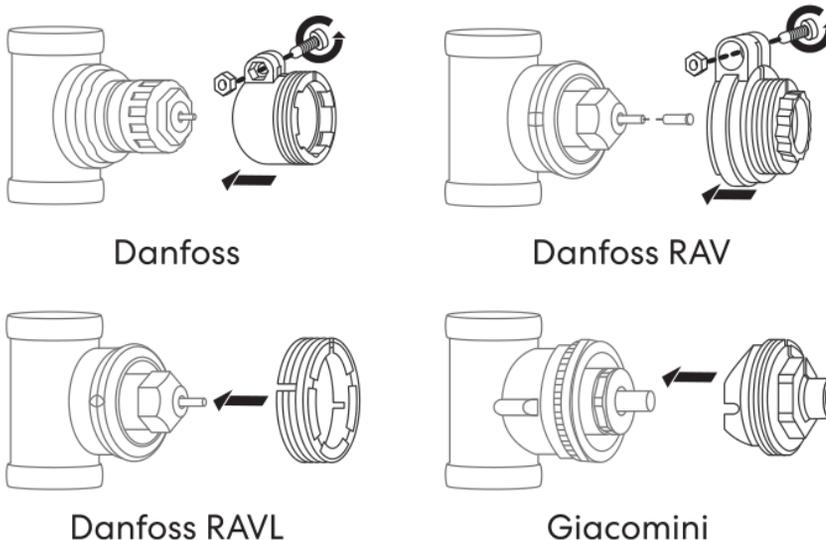
- 1) Unscrew your existing radiator thermostat. No worries, water will not leak during this process.



- 2) Screw the smart radiator thermostat directly onto the radiator if the connector type is M30\*1.5 (picture shown as below). You can adjust the angle to make the screen facing the viewer properly. Then hold the product and the screw its nut till screw tight.

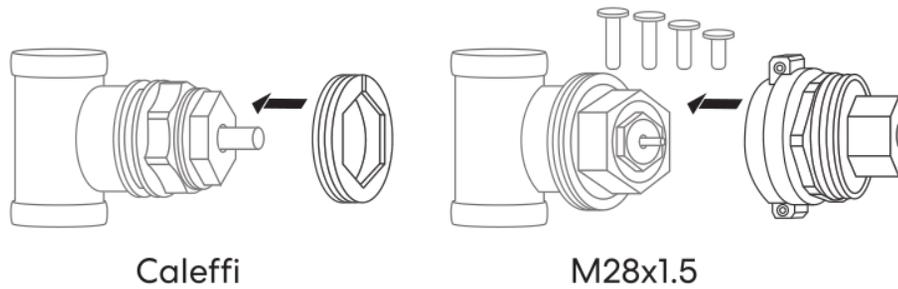


- 3) If you have valves listed below, please refer to the following picture for the adaptor installation first. Then screw the product as described in step 2.

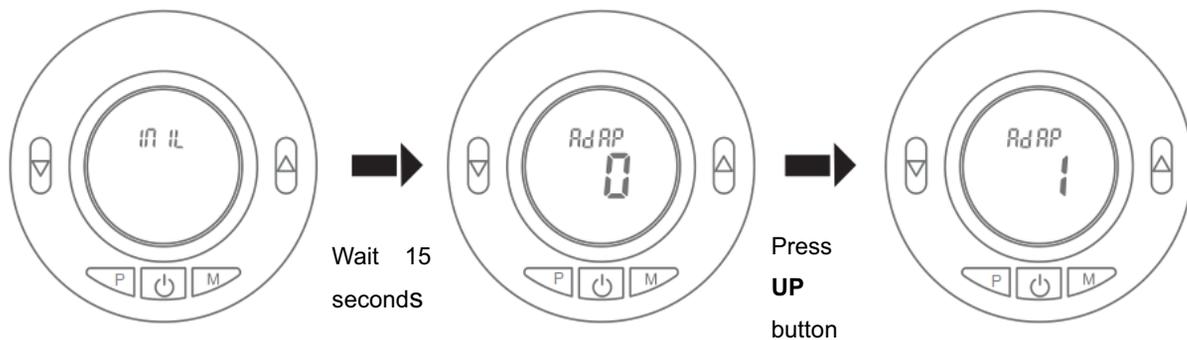


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- 4) Install 2\*1.5V AA batteries. The screen show as first picture, wait for 15 seconds, it will change to second picture, then press UP button, the screen change from 0 to 1. The radiator thermostat will start detect valve stroke. (**Valve stroke need to redetect when change batteries each time**).



## Notes:

- If you have already installed the batteries in the previous step, please remove the batteries for 10 seconds and then reinstall. Otherwise, it might not detect both ends of the probe properly.
  - All operation should be conducted while the LCD screen light is on. If the LCD screen light is off, please press any button to awake the LCD screen light and then continue the requested operation.
- 5) When you see the LCD screen is showing information as below, the radiator thermostat is ready for configuration. If not, please uninstall and reinstall the batteries and redo step.



## 6) APP Installation.

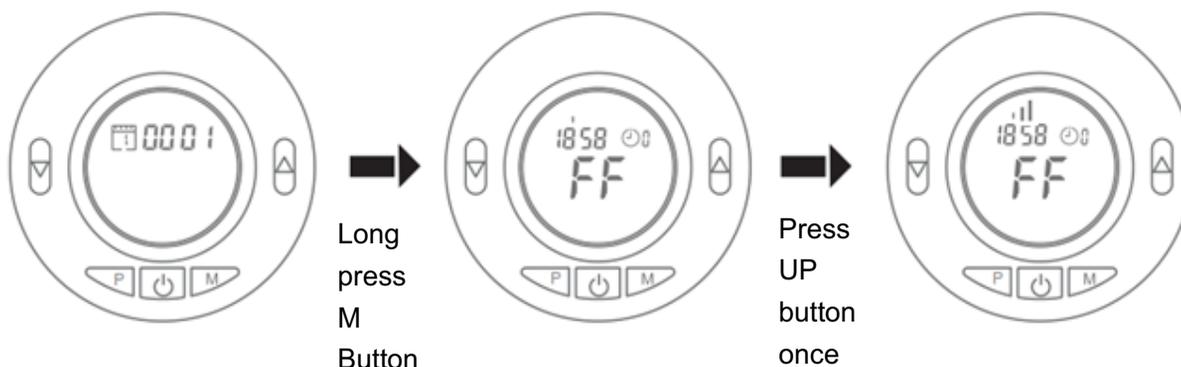
Before adding Radiator thermostat to the app, make sure gateway E-HUB is well connected with app and gateway keeps online.

- Make the host device (gateway) is on the status of waiting for adding slave thermostats.

# Thermostatic Radiator Valve

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- b. Tap Gateway device to enter main page. Tap “ **Add subdevice**”
- c. Turn thermostat off by pressing ON/OFF button, then long press **M** button until it shows screen as below picture, then press  $\Delta$  button,  $\text{||||}$  icon start moving.



- d. Press “LED already blink” on app; App will start searching device, once subdevice occur on the app, tap “DONE”.
- e. Wait till app show “ Added successfully”, the app connection success. Tap “ Done” at right top cornet to app main screen for operation.
- f. On thermostat, press  $\text{⏻}$  button to resume to main screen

## Modes Selection

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Press **M** button to choose Manual mode/Away mode/PRG mode.

## Time & Date & Program setting

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Press and hold **P** button for 5s, and set the time and date (Min-Hour-Weekday) by using  $\Delta$  and  $\nabla$  buttons, each press of **P** button will take you to the next setting item.

After setting the time and date, press **P button** to enter program setting. You can set the start time and desired temperature for each program by using  $\Delta$  and  $\nabla$  buttons. Each press of **P** button will take you to next setting item.

Default Setting:

Period	1		2		3		4	
	Time	Temp	Time	Temp	Time	Temp	Time	Temp
12345(Mon.~Fri.)	7:00	22°C	8:30	19°C	17:00	22°C	22:00	19°C
6(Sat.)	8:00	22°C	8:30	22°C	17:00	22°C	22:00	19°C
7(Sun.)	8:00	22°C	8:30	22°C	17:00	22°C	22:00	19°C

## Child Lock

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If screen is locked, press the  &  buttons at the same time for 3 seconds to unlock.

## Temperature Calibration

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This feature used to calibrate thermostat's room temperature display when actual room temperature different from thermostat showed (refer to the menu 01 of parameter settings). For example, if actual room temperature 21.5°C, but thermostat shows 23°C, then you can set this value to -1.5, then radiator thermostat will show 21.5°C.

## Frost Protection

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This is the temperature maintained when the thermostat is in Frost Protection Mode (refer to the menu 05 of parameter settings). If room temperature below 5°C (Default), radiator thermostat will turn on heating till room temperature arrive 5°C (Default).

## Open Window Detection Function (OWD Function)

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When the Open Window mode is enabled (refer to the menu 12 of parameter settings), the system will automatically stop heating when it detects a sudden drop of room temperature (2°C in 15 minutes as default). This is normally caused when a window or door is opened without turning off the heating device.

When open window detected, the screen will show symbol .

The device will resume to its previous status after 30mins (default) if no action is implemented. Or you can resume the device by manually press any button.

## Parameter settings

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Turn off the thermostat, press and hold **M** and  button for 3s until screen shows item 01, each press of **M** button will take you to next setting item, adjust the range by using  &  button.

<u>Menu</u>	<u>Description</u>	<u>Range</u>	<u>Default Value</u>
01	Temp. calibration	-8 °C ~8 °C	0°C
02	Set Point Max.	5 °C ~35°C	35 °C
03	Set Point Min.	5 °C ~35°C	5 °C
05	Frost Protection Temp.	5 °C ~15°C	5 °C
10	Display	0: Room temp. 1: SET temp.	0
12	Open window detect function	0: Disable 1: Enable	0

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13	OWD Detect Time	2~30mins	15mins
14	OWD Drop temp. select ( within detect time )	2°C,3°C,4°C	2°C
15	OWD Delay time select (Return to previous working status)	10~60mins	30mins
17	Factory reset	0: No	0
		1: Yes, and then press On/off button for 5s,wait until thermostat restart	
18	Software version		
19	Software version		
31	Battery voltage	Unit: 10mv	
32	PID P-band select	2 °C ~10°C	7°C
33	PID I-time select	30~90min	30min

## WARRANTY CARD

<b>DATE OF PURCHASE</b>	
<b>SHIPPING ADDRESS</b>	
<b>SIGNATURE / STAMP</b>	
<b>DAMAGE DESCRIPTION</b>	
<b>SERVICE COMMENTS</b>	

FILL IN IF NEEDED

(\*) Cross incorrect

I agree to pay the cost of inverter repair due to:

\* expiration of the warranty period / \* warranty void

Before proceeding with the repair, service will inform by phone about the exact costs of the repair.

Please attach a copy of the purchase document (receipt or invoice) to the complaint.

The full regulations of service repairs can be found on our website [www.voltpolska.pl](http://www.voltpolska.pl)

### Proper disposal of the product (waste electrical and electronic equipment)

The marking placed on the product or in the texts related to it indicates that it should not be disposed of with other household waste at the end of its useful life. To avoid harmful effects to the environment and human health from uncontrolled disposal, please separate this product from other types of waste and recycle responsibly to promote the reuse of material resources as a continuing practice. For information on where and how to recycle this product in an environmentally safe manner, residential users should contact the retailer where they purchased the product, or their local government authority. Business users should contact their supplier and check the terms and conditions of their purchase contract. The product should not be disposed of with other commercial waste.

