LED MATTER Smart Thermostatic Radiator Valve

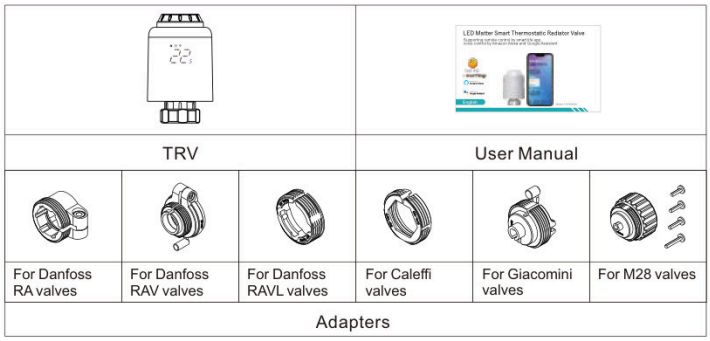


- √ The valve opening percentage can be visually displayed on the device screen.
- √ The new generation of motor technology is adopted, which greatly shortens the device debugging time.
- √ After the device is connected to Internet, it supports three levels screen brightness adjustment, which can be better applied to a variety of scenarios.
- √ After the device is connected to Internet, the chart function can be obtained to analyze the temperature data in each period, which is efficient and energy saving.

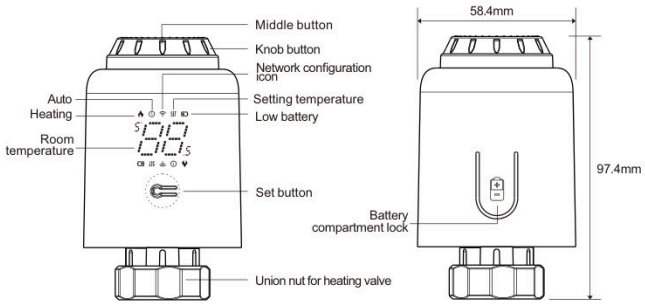
Technical specifications

Power Supply:	3 x 1.5 V alkaline AA batteries (not included)
Protection Level:	IP20
Ambient Temperature:	0~50˚C
Surface Temperature:	90˚C Max (on the radiator)
Standby Current:	6μA Min
Connection:	M30 x 1.5mm
Linear Travel:	6mm
Dimensions(W x H x D):	58.4mm x 97.4mm x 58.4mm
Net weight:	147 g

1.Standard accessories

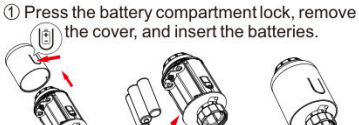


2.Display Symbols



3.Installation

① Press the battery compartment lock, remove the cover, and insert the batteries.



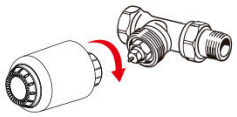
***Attention:**
While inserting the batteries, please make sure the polarity of battery (+/-) is aligned.



② Initialize, the mandrel pull back, then "" is displayed and blinking on the screen.

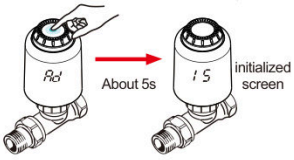


③ When "" stop blinking, install the TRV union nut with M30*1.5 thread for heating valve, and then tighten the nut.

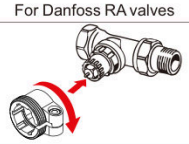
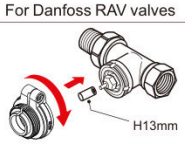
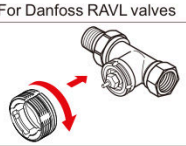
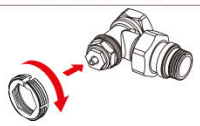
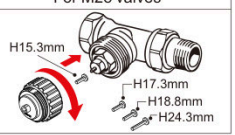


Note: The valve must be installed, otherwise the **F5 error code** will be prompted.

④ Press the middle button, "" start blinking, and the device enter valve-adjusting process. After several seconds, the adjustment is completed when initialized screen is displayed.



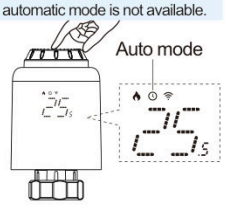
How to install the adapter correctly

For Danfoss RA valves	For Danfoss RAV valves	For Danfoss RAVL valves
	 H13mm	
For Caleffi valves	**For Giacomini valves**	**For M28 valves**
	 H8.6mm	 H15.3mm H17.3mm H18.8mm H24.3mm

4.Temperature control mode

Temperature control mode
Press the middle button to switch between Auto mode and Manual mode.

***Attention:** When the device is "unbind" or "bind unconnected" and the time of the device is not synchronized, the automatic mode is not available.



- Auto mode
When "" is displayed on the screen, it is under Auto mode. Four time periods and setting temperature could be programmed per day, one week as a cycle, based on customized needs.
- **Manual mode**
When "" is not displayed on the screen, it is under Manual mode. The device will work according to current setting temperature, without controlled by the time period program.
- **Temporary mode**
When setting temperature under Auto mode, the device enters Temporary mode, and then "" appears on the screen. The device is switched to Manual mode temporarily, without controlled by the time period program. It will return to Auto mode by next time period.

5.Stop heating and pause heating

- **ON:** In summer, when the heating system stops working, the valve can be fully opened by turning the knob clockwise to "" in manual mode. This will extend the life of the valve.



- **OFF:** In winter, in manual mode, turn the knob counterclockwise until "" displays, then heating stops and frost protection is activated.



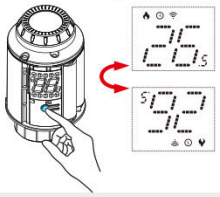
***Attention:** After the antifreeze function is activated, the valve will open when the room temperature is lower than 5°C, and the valve will be closed when the room temperature exceeds 7°C to prevent damage to the radiator thermostatic valve due to freezing.

6.Adjust setting temperature and Screen rotation

- **Adjust setting temperature:** Rotate the knob to adjust setting temperature, stepping by 0.5˚C.



- **Screen rotation:** Short press the Set button to switch the screen display direction.

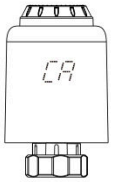


7.Open-window function and Anti-scale

- **Open-window function:** The device can detect an open window by registering atemperature drops by more than 1.5°C within 5 min. Tap "Setting" to turn on "Open Window" function. With the function enabled, when the device is heating, it will shuts off heating for 30 minutes if an open window is detected, and the screen displays "".



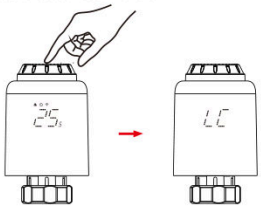
- **Anti-scale:** TRV executes routine decalcification every Monday at 12:00 to protect the valve from calcification. "" will be displayed on the screen during decalcification.



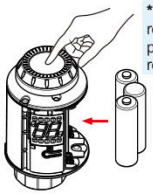
***Attention:** The "Open Window" function can be cancelled by:
① Temperature setting operation on the APP or device.
② The detected temperature rises by more than 1.5°C within 4.5 minutes.
③ No operation on the APP or device within 30 minutes.

8. Child lock function and Restore factory settings

- **Child lock function:** Long press the middle button for 3 seconds until "LC" is displayed on the screen to activate the child lock. While the device is locked, long press middle button for3 seconds until "LC" disappear to deactivate the child lock.



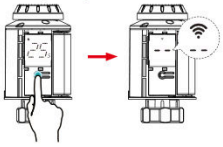
- **Restore factory settings:** Long press the middle button and insert the battery at the same time until "FA" is displayed on the screen and blinking for 3 seconds, the device will be restored to factory settings and restarted.



*** Attention:** Once the device is restored to factory settings, all previous settings can not be recovered.

9. APP device

① Press the" **Set Button** "for 3 seconds until " " blinks to enter the network pairing state.



② Open the" **Home** "App on your mobile phone, click" **+** "in the upper right corner, and select " **Add or Scan Accessory** ".

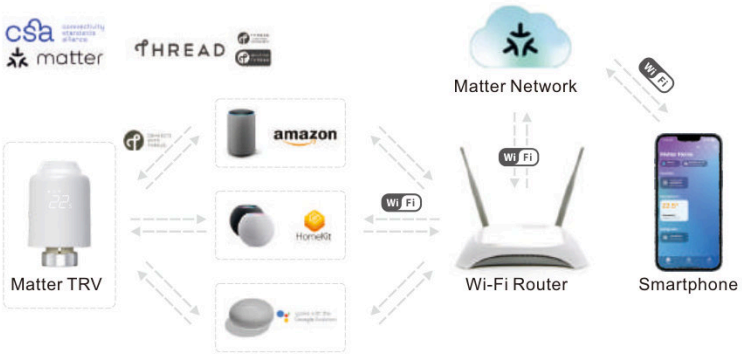


③ Click" **Matter Accessory** "in the pop-up box and enter the" **Setup Code** ", then click" **Continue** ".

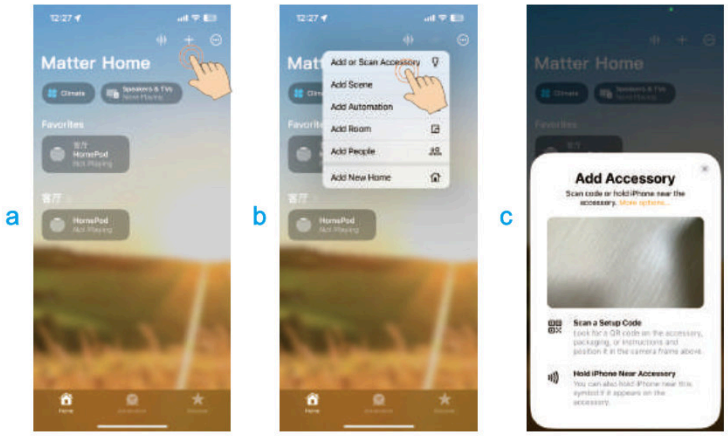
④ Click" **Add Anyway** "in the pop-up box again and wait for the network pairing.
After the Accessory is finished, the location and name, etc. of the device can be set according to the user's actual situation and needs.



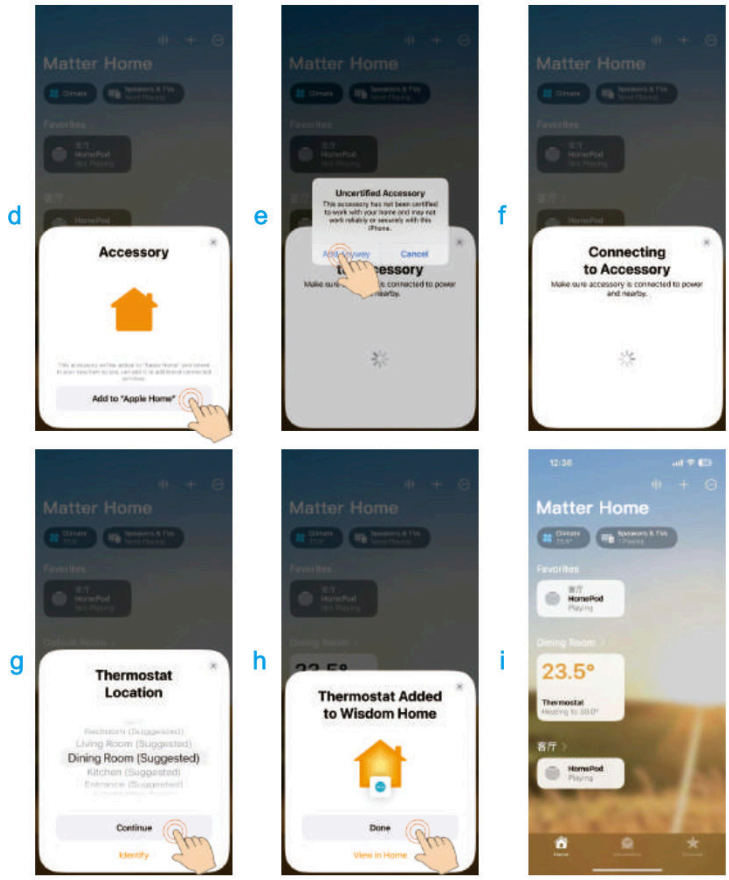
10. APP remote control and voice control



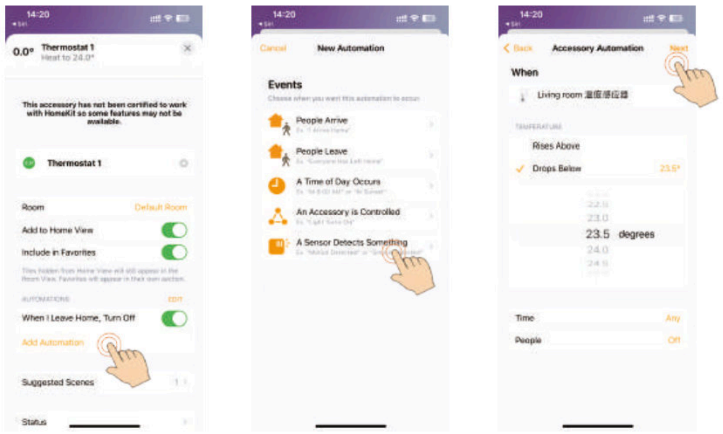
11. Homekit APP Configuration



11. Homekit APP Configuration



12. Home automation and Events



13. Voice control

- You can say in this way:

Amazon Alexa : Alexa,
Apple Homepod: Hi Siri,
Google Assistant : OK google,

* Set the DEVICENAME to 26 degree.
* Drop the DEVICENAME by 1 degree.
* Raise the DEVICENAME by 1 degree.
* Make the DEVICENAME warmer.
* Turn on the DEVICENAME child lock.
* Turn off the DEVICENAME child lock.
* What temperature is the DEVICENAME set to.
* What is battery on the DEVICENAME.

*** Attention:** "DEVICENAME" is the device name, you can also name it yourself. The temperature unit of TRV and smart speaker must be identical.

14. Troubleshooting and maintenance

Error code	Problem	Solution
F0	Temperature sensor abnormality	Contact after-sales staff
F1	Slow valve operation	Check the installation and heating valve
F2	The stroke is too long	Check the fastening of TRV
F3	The stroke is too short	Check the heating valve
F4	Running out of battery	Replace batteries immediately
Battery symbol ( )	Low battery	Replace batteries within 1 week