

avidsen

2
YEARS

GUARANTEE

Homeflow TRV

WIRELESS SMART THERMOSTATIC VALVE

Ref.127076



AvidsenHome



www.avidsen.com

A - SAFETY INSTRUCTIONS

1 - OPERATING PRECAUTIONS

- Read this entire manual before starting the installation.
- Do not allow children to handle the product.
- Do not install this product outside

2 - WARNING

This product was designed to be connected to a hot-water radiator; any other use of the device is not covered by the warranty or technical support. Avidsen cannot be held liable for any use that does not comply with the instructions in this manual and causes damage. Children should be supervised to make sure that they do not play with the device.

3 - MAINTENANCE AND CLEANING

The outer case can be cleaned periodically.

- Do not use abrasive substances, substances containing alcohol, thinners or other flammable substances.
- Do not spray any products directly onto the unit.

4 - RECYCLING



This symbol means that devices no longer in use should not be disposed of with household waste. The hazardous substances they may contain can be harmful to health and the environment.

Return the equipment to your local distributor or use the recycling collection service provided by your local council.



B - PRODUCT DESCRIPTION

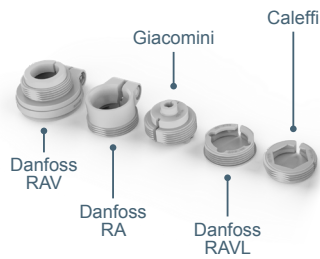
The Avidsen Homeflow TRV thermostatic valve lets you control the temperature of a room through your smartphone (Apple and Android). It has an LCD screen that displays the temperature.

It can work without an application; in this configuration you can control it manually. You can control and intuitively programme it through your smartphone and the Avidsen Home app.

1 - KIT CONTENTS



1 x1



2 x1

M28 x 1.5mm



3 x1



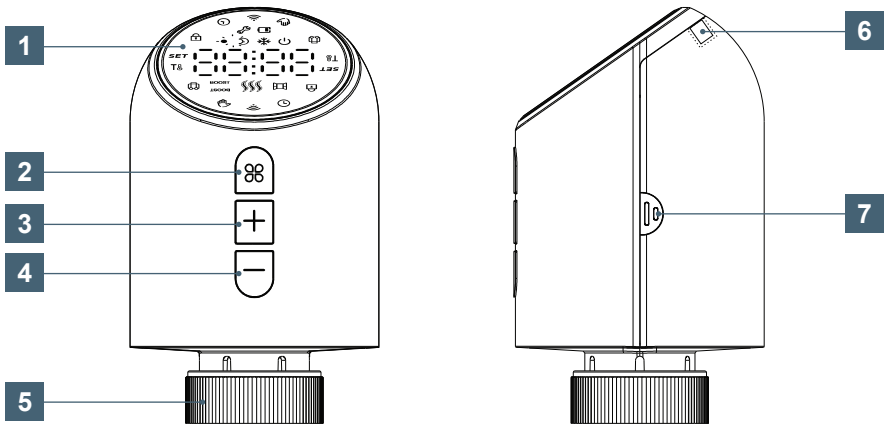
4 x1

1	Smart thermostatic valve
2	Mounting rings
3	M28 adaptor
4	Measuring tool

C - INSTALLATION

Before the device is permanently installed, make sure it is within WiFi range of your router. If it is installed outside WIFI range, you should install a WIFI repeater to boost the signal.

1 - THERMOSTATIC VALVE



1	Screen
2	MODE button
3	+ button
4	- button

5	M30 valve connecting ring
6	SET button
7	Battery compartment

2 - THERMOSTATIC VALVE START-UP

Note: before inserting the batteries, you must connect your thermostatic valve to your radiator valve. Depending on the valve model, you must choose the appropriate adaptor.

To determine your valve model, unscrew your old thermostatic valve.

There are several types of valve on the market. This product is designed to be compatible with different valve models. Please find below the list of valves compatible with this product:



Danfoss



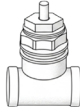
Danfoss RAV



Danfoss RAVL



Giacomini



Caleffi

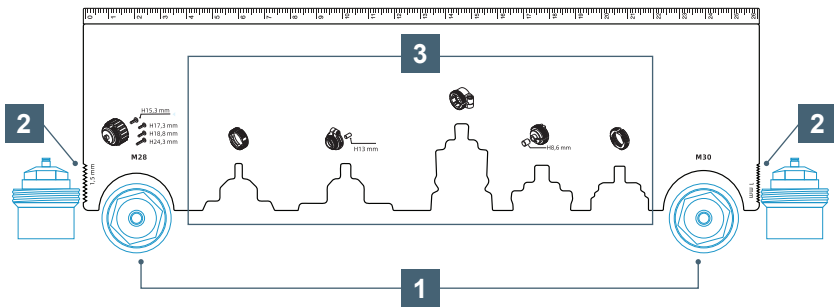


M28x1.5



M30x1.5

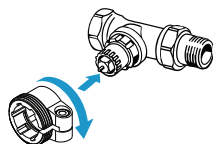
The product kit comes with an installation ruler to check the product's compatibility with your radiator valve.



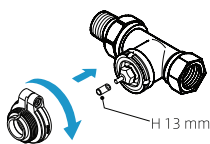
1. First you need to measure the thread diameter. Compatible with M30 and M28 threads. If the diameter corresponds with M28, screw on the appropriate adaptor provided.
2. Then determine the screw thread. It must be 1.5 mm. **The product is not compatible with 1 mm screw threads.**
3. Once these measurements have been made, you can identify the type of valve using the notches in the ruler. Depending on your type of valve, select the fastening ring corresponding with your installation.

2.1 INSTALLING THE VALVE

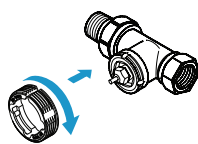
First you need to install the appropriate adaptor. You should test your radiator before you permanently attach the thermostatic valve.



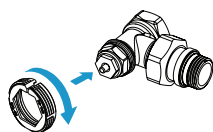
for Danfoss RA valve



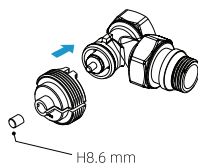
for Danfoss RAV valve



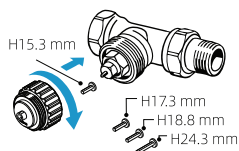
for Danfoss RAVL valve



for Caleffi valve

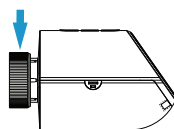


for Giacomini valve

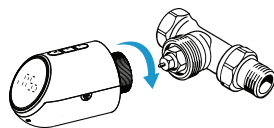
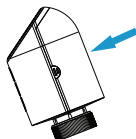
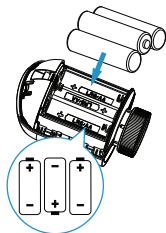
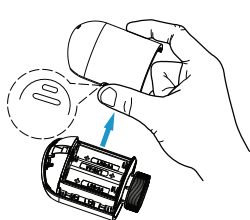


for M28 valve

If your radiator is equipped with an **M30 1.5 mm thread** valve, use the ring that is already installed on the thermostatic valve



Once the test is complete, connect the thermostatic valve to your radiator and insert the batteries (not included).

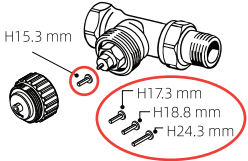


2.2 INITIAL THERMOSTATIC VALVE START-UP

- After inserting the batteries, wait for the animation to end, . When the animation is on, the valve is initializing.
- AT the end of the animation, , position the valve on the radiator if it is not already done.
- Once the valve is positioned, press the MODE  button once. The screen will show , which means the valve fits the valve connection.
- When learning is successfully completed, the valve's home screen is displayed, along with the temperature of the room.

If the valve is not correctly installed on the valve, the screen will display the F5 error.

Check the following:

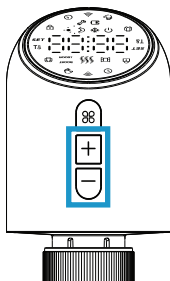
Is the valve installed correctly?	Check that the valve is securely threaded.
Is the adaptor selected the right one?	Frequent issue on the M28 diameter adaptor. The stem selected is the wrong one. 

Once checking is complete, press the  MODE button again to restart a learning process.

D - USING THE PRODUCT

1. MANUAL TEMPERATURE ADJUSTMENT

Press the + or – button on the thermostatic valve to adjust the temperature manually. The screen displays the  symbol



2. HEATING MODES

The valve has 4 heating modes: ECO, COMFORT, FROST PROTECTION, OFF. The setpoint temperature for each mode is adjustable using the app.

Press the MODE  button to switch modes.

Symbol	Mode	Default temperature
	ECO	15°C
	COMFORT	20°C
	FROST PROTECTION	5°C
	OFF	-

Frost protection Mode

If frost protection mode is enabled in the valve protection options (in the app), the valve will open automatically as soon as the temperature drops below 5°C, and will close when the temperature has reached 7°C, even if the valve is OFF.

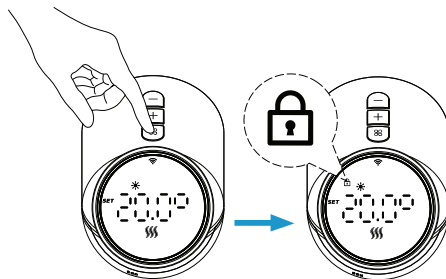
OFF Mode

To activate OFF mode, press the “-” button on the valve until OFF appears on screen.

3. LOCKING THE VALVE

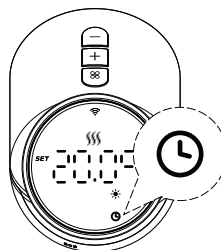
Press and hold the MODE  button for 3 seconds to lock the valve. Once in locked mode, the screen will display the  symbol

PLEASE NOTE: do not press and hold the MODE  button for 3 seconds when the thermostat is in OFF mode, as the WiFi network will be reset.



4. PROGRAMMING FOLLOW-UP

The screen shows  when the valve follows the time programme configured via the app.



5. HOLIDAY MODE

This mode can only be set via the app. You can set a period of absence from your home. The valve will go into Frost Protection mode for the duration of this period and will automatically return to the last mode it was in before the Holiday mode was enabled. To cancel holiday mode manually from the valve, press and hold the MODE  button for 3 seconds.

In holiday mode, the screen shows the  and  symbols

6. BOOST BOOST MODE

This mode can only be enabled via the app.
This mode can only be used when the valve exits Holiday or Frost Protection mode.
The valve will open fully for a rapid temperature rise for a period of time you will have defined in the app when enabling the mode.
To cancel boost mode manually from the valve, press and hold the MODE  button for 3 seconds.

7. WINDOW OPENING DETECTION

If the valve detects a drop in temperature of more than 1.5°C in less than 4min30s, it will automatically close and stay closed for 30 minutes.
The screen displays the  symbol
After 30 minutes, or if the valve detects an increase in temperature of 1.5°C in less than 4min30s during this period, the valve will automatically exit Window opening detection mode and return to its previous mode.
To exit Window opening detection mode manually, request a setpoint temperature change via the app or the valve directly.

8. ON MODE

Press the “+” button on the valve until  appears on screen. The valve will be fully open.
During summer months, when heating is not required, it is recommended to keep the valve open by selecting this mode. This prevents premature valve failure.
To exit mode  change the heating mode or temperature setpoint from the valve or app.

9. DESCALING MODE

Every Monday at 12pm, the valve carries out maintenance and starts its motor in order to avoid a limescale buildup in the valve control system.
The screen displays  during this operation

10. FACTORY RESET

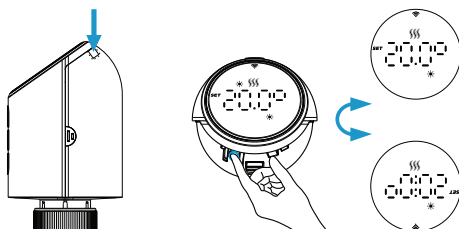
Remove one battery from the valve. Press and hold the MODE  button until  appears and flashes on screen.

11. STANDBY EXIT

When the valve is in standby, it can be woken up by pressing the MODE  button once.

12. SCREEN ROTATION

Pressing the SET button (visible by removing the battery cover) rotates the screen.



13. ERROR CODE

Code	Problem	Solution
F0	Temperature sensor error	Replace the device
F1	The valve is not responding	Check the installation of the radiator valve
F2	Excessive valve travel	Check the installation of the valve
F3	The valve does not travel enough	Check the radiator valve
F4	Very low batteries	Replace the batteries:
F5	No valve detected	Check installation
F6	Low batteries (too low for motor control)	Replace the batteries:

14. SYMBOL REMINDER

Symbol	Meaning
	This symbol is not on screen: the valve is not connected to WiFi This symbol is flashing: connection in progress This symbol is steady: valve connected
	The valve is open and heating is on
	Programming mode active
	Manual mode active
	Comfort mode active
	Eco mode active
	Frost Protection mode
	Off mode active
	Holiday mode active
BOOST	Boost mode active
	Open window detection mode active
	Valve screen locked
	Low Batteries

1 - DOWNLOADING THE MOBILE APP



Download the Avidsen Home app from the Android Play Store or Apple App Store.

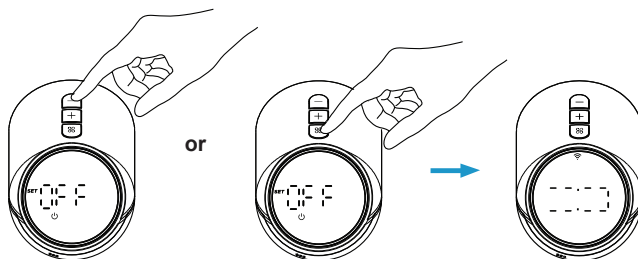
Launch the app and log in if you already have an account. If not, press CREER UN NOUVEAU COMPTE (CREATE A NEW ACCOUNT) and let the application guide you.

2 - WIFI CONNECTION ON THE VALVE

Switch the valve to OFF:

- by pressing the MODE button repeatedly until you reach OFF mode
- or by pressing and holding the “-” button for 3 seconds.

Once the valve is in OFF mode, press and hold the MODE button for 3 seconds until the [] animation appears on the valve screen.

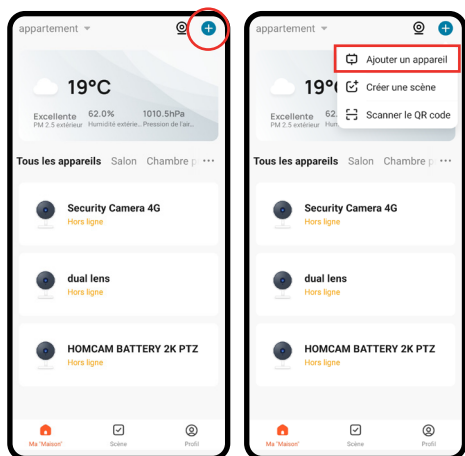


3 - ADDING THE VALVE IN THE APP

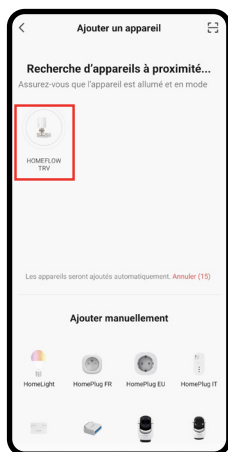
If you have more than one item to pair (plugs, cameras, other bulbs), switch on only one item at a time. The following information may vary depending on app updates.

PLEASE NOTE: A message may appear during installation indicating that the WiFi password and SSID are too long. Make sure your router SSID and password are fewer than 20 characters long.

To start the installation, press **AJOUTER (ADD)**. Bluetooth must be activated on your phone or tablet.



The product will appear at the top of the screen, press **AJOUTER (ADD)**.

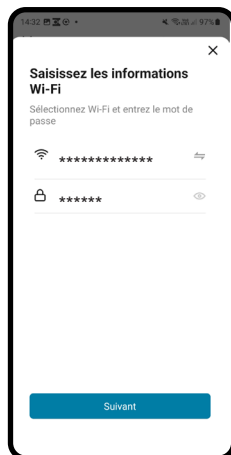


Select your WiFi network.

(Please note: your smartphone must be connected to the same WiFi network the valve will be connected to)

- If the valve is not visible in the app, go to the settings on your smartphone and check that all the authorisations for the Avidsen Home application have been granted.

Enter your password (WiFi key) and click on **SUIVANT (NEXT)**. Please wait while the connection procedure takes place. This can take a few minutes.



In the event of a connection error:

- Wrong WiFi key: Thermostat not responding. The application will say "Echec de l'ajout de l'appareil" (Failed to add device).

Click on the cross at the top left and continue uploading the valve, having reset the valve first.

4 - USE VIA THE APP

The app allows you to control the valve by choosing a heating mode (ECO, COMFORT, FROST PROTECTION, OFF), or by defining a setpoint temperature manually.

You can also access the valve settings: window opening detection, child safety, setpoint in case of low battery, sensor setting, screen setting, setpoint temperature setting for heating modes, valve control.

You can also set time programmes for automatic valve management.

1 - TECHNICAL CHARACTERISTICS

Power supply	3xAA (not included) - 1-year battery life
Standby current	6 µA min
Operating T°	0 - 50°C
Installation	Indoors only
Storage T°	-20 / 70°C
Radio protocol	Wi-Fi 802.11b/g/n (2.4 GHz)
Temperature sensor	NTC, B=3380, R25=10 Kohm +/- 1%
Protection rating	IP20
Surface temperature	90°C max (on radiator)
Dimensions and weight	59.4 mm x 99.3 mm x 59.4 mm - 145 g

2 - EU REGULATION 2023/2854E

Details to be provided relating to data in accordance with REGULATION (EU) 2023/2854		
Type	Power on/off, run time, temperature, connection status, device configuration	
Format	Collected in JSON format; stored in MySQL tables; exported in XLS format	
Volume	~3.75 MB	
Is data generated	Continuously (with latency time)	/
	In real time	Only during a user operation or automatic triggers
Where is the data stored	Europe	
Data retention period	1.Real-time activity logs: pseudonymised after 7 days, stored for a maximum of 12 months. 2. Account-level data: stored until the user deletes the account	
How to	Access data	1. In the application: review the app's privacy policy 2. Web: submit a request to https://www.avidsen.com
	Extract data	
	Delete data	
	Share data	We do not sell, rent or disclose personal data to third parties. Any sharing only takes place with the explicit consent of the user. To find out more: read the privacy policy.
	Stop sharing	1. In the application: review the app's privacy policy 2. Web: submit a request to https://www.avidsen.com
Data subject's identity (contact details)	https://www.avidsen.com Address: 19 avenue Marcel Dassault -37200 Tours- FRANCE Contact: hotline@avidsen.com	

F - TECHNICAL AND LEGAL INFORMATION

3 - WARRANTY

This product is guaranteed for parts and labour for 2 years from the date of purchase. Proof of purchase must be retained for the duration of the warranty period.

The warranty does not cover damage caused by impacts or accidents.

4 - HELP AND ADVICE



If you have any problems, check out our tutorials and videos at www.avidsen.com/fr/

5 - EXTEND THE EXPERIENCE

Visit www.maisonnic.com and our usual dealers for a full range of spare parts, compatible accessories and smart solutions to enhance your connected ecosystem. Give your installation a new dimension by improving its performance and longevity, while imagining a home that is ever more practical, safe and connected. Perfectly compatible products, designed to meet the demands of modern, efficient and sustainable living. With **Maisonnic** and the **Avidsen** network, your installation can evolve without limit.

6 - DECLARATION OF CONFORMITY

Avidsen declares that the above product complies with the RED 2014/53/EU directive. Its compliance has been assessed pursuant to the applicable standards in force:

EN 60730-1:2016/A2:2022
EN IEC 60730-2-9:2019/A2:2020
EN 301 489-1 V2.2.3:2019
EN 301 489-17 V3.2.4:2020
EN IEC 55014-1:2021
EN IEC 55014-2:2021
EN 300 328 V2.2.2:2019
EN 62311:2008
EN IEC 62311:2020
EN 62479:2010
EN 50663:2017
EN IEC 63044-5-1:2019
EN IEC 63044-5-2:2019

Tours, 01/07/2026
Alexandre Chaverot, CEO