



## homematic IP HmIP-eTRV-F Radiator Thermostat Flex Instruction Manual

[Home](#) » [Homematic IP](#) » homematic IP HmIP-eTRV-F Radiator Thermostat Flex Instruction Manual 

### homematic Radiator Thermostat – flex HmIP-eTRV-F



## Contents

- 1 Package contents
- 2 Information about this manual
- 3 Hazard information
- 4 Function and device overview
- 5 General system information
- 6 Start-up
- 7 Configuration menu
- 8 Operation
- 9 Changing the batteries
- 10 Troubleshooting
- 11 Restoring factory settings
- 12 Maintenance and cleaning
- 13 General information about radio operation
- 14 Disposal
- 15 Technical specifications
- 16 Documents / Resources
  - 16.1 References

## Package contents

- 1x Radiator Thermostat – flex
- 3x Danfoss adapter (RA / RAV / RAVL)
- 1x Support ring
- 1x Nut M4
- 1x Cylinder head screw M4 x 12 mm
- 2x 1.5 V LR6/Mignon/AA batteries
- 1x Operating manual

## Information about this manual

Please read this manual carefully before operating your Homematic IP components. Keep the manual so you can refer to it at a later date if you need to. If you hand over the device to other persons for use, please hand over this manual as well.

### Symbols used:



Important! This indicates a hazard.



Note. This section contains important additional information!

## Hazard information



Caution! There is a risk of explosion if the batteries are not replaced correctly. Replace only with the same or equivalent type. Never recharge non-rechargeable batteries. Do not throw the batteries into a fire. Do not expose batteries to excessive heat. Do not short-circuit batteries. Doing so will present a risk of explosion.



Contact with batteries that are dead or damaged can cause skin irritation. Use protective gloves in this case.



Do not open the device. It does not contain any parts that need to be maintained by the user. In the event of an error, please have the device checked by an expert.



For safety and licensing reasons (CE), unauthorised changes and/ or modifications to the device are not permitted. The device may only be operated in dry and dust-free environment and must be protected from the effects of moisture, vibrations, solar or other methods of heat radiation, cold and mechanical loads.



The device is not a toy: do not allow children to play with it. Do not leave packaging material lying around. Plastic films/bags, pieces of polystyrene, etc., can be dangerous in the hands of a child.



We accept no liability for damage to property or personal injury caused by improper use or the failure to observe the hazard warnings. In such cases, all warranty claims are void. We accept no liability for any consequential damage.



The device is only suitable for use in residential environments.



Using the device for any purpose other than that described in this operating manual does not fall within the scope of intended use and will invalidate any warranty or liability.

**Function and device overview**

The Homematic IP Radiator Thermostat offers timer-controlled and demand-based regulation of the room temperature via a heating schedule with individual heating phases. You can directly configure the radiator thermostat on the device and adjust it to suit your needs. Alternatively, you can comfortably control the radiator thermostat in combination with a Homematic IP Access Point via the free smartphone app. In connection with a Homematic IP Window and Door Contact, the temperature is reduced automatically during ventilation. The radiator thermostat fits all common radiator valves and is easy to install – without having to drain any water or intervene in the heating system. With the additional boost function, the radiator can be quickly heated by opening the valve. The large e-paper display makes it easy to read off the temperature and can be flexibly adapted to suit the direction of installation.

**Device overview:**

- (A) Metal nut
- (B) E-paper display
- (C) Plus button
- (D) Minus button
- (E) System/Menu/Boost button
- (F) Battery compartment (cover)

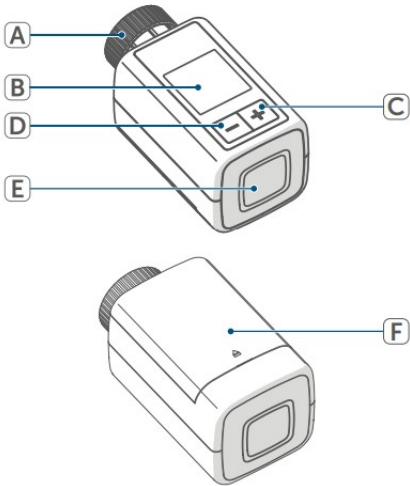
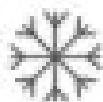


Figure 1

**Display overview:**

	Setpoint temperature
	Open window symbol



We 06:00  
21.0 °C

Battery

Radio transmission

Valve open (heating)

Valve open (cooling)

Frost protection

Manual mode\*

Automatic mode\*

Eco mode\*

Operating lock\*

Overview of heating phases

\* (see „7 Configuration menu“ on page 37)



Figure 2

Figure 2 shows the “Functional” display mode. The mode is set to “Reduced” by default. The display mode can be customised in the configuration menu (stand-alone mode) or in the app.

## General system information

This device is part of the Homematic IP Smart Home system and communicates via the Homematic IP wireless protocol. All devices in the Homematic IP system can be configured easily and individually with a smartphone using the Homematic IP app. The functions provided by the system in combination with other components are described in the Homematic IP User Guide. All current technical documents and updates can be found at [www.homematic-ip.com](http://www.homematic-ip.com).

## Start-up

### 6.1 Pairing



Please read this entire section before starting the pairing procedure.

You can pair the radiator thermostat either directly with one or more Homematic IP devices or on the Homematic IP Home Control Unit or Homematic IP Access Point. After direct pairing, the thermostat is configured directly on the device. After pairing with the Access Point, configuration is via the free Homematic IP app.

#### 6.1.1 Direct pairing with a Homematic IP device



You can pair the Homematic IP Radiator Thermostat – flex (HmIP-eTRV-F) with the Homematic IP Window / Door Contact with Magnet (HmIPSWDM-2) and/or the Homematic IP Wall Thermostat (HmIP-WTH-B-2).



Please make sure you maintain a distance of at least 50 cm between the devices during pairing.



You can cancel the pairing process in the menu. This will be indicated by the device LED (E) lighting up red. To connect the device with another Homematic IP device, the pairing mode of both devices must be enabled. To do this, proceed as follows:

- Open the battery compartment (F) by pulling the cover of the battery compartment upwards.

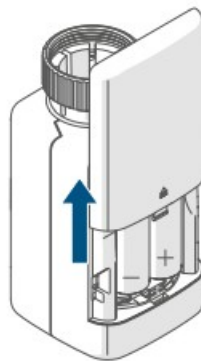


Figure 3

- Remove the insulation strip from the battery compartment.
- Press and hold the System/Menu/ Boost button (E) for approx. 2 seconds to open the configuration menu.

- Select menu item “DATE&TIME” using the plus and minus buttons (C + D) and confirm with the System/Menu/Boost button (E).
- Press and hold the System button of the device you want to pair (e.g. the Homematic IP Window / Door Contact with Magnet) for at least 4 seconds to activate the pairing mode. The device LED starts to flash orange. For further information, please refer to the operating manual of the corresponding device.



Figure 4

The device LED lights up green to indicate that pairing has been successful. If pairing has failed, the device LED lights up red. Please try again.

- i** If no pairing operations are performed, pairing mode is exited automatically after 3 minutes.
  - i** If you would like to add another device to an existing device group, first enable the pairing mode of the existing device in the group and afterwards the pairing mode of the new device.
  - i** If you would like to add a wall thermostat to an existing device group including a radiator thermostat and a window and door contact, you first need to pair the wall thermostat with the radiator thermostat. You can then pair the wall thermostat with the window and door contact.
- If you are using several devices in one room, you should pair all devices with each other.

#### 6.1.2 Pairing at the Home Control Unit/Access Point

- i** If you have already paired the device with another Homematic IP device directly, you first have to restore the factory settings of the device before you can pair the radiator thermostat with the Homematic IP Access Point or Homematic IP Central Control Unit (see „11 Restoring factory settings“ on page 45).
- To enable the device to be integrated into your system and to communicate with other Homematic IP devices, it must first be paired at the Homematic IP Home Control Unit or Homematic IP Access Point.
- i** First set up your Homematic IP Home Control Unit or Homematic IP Access Point via the Homematic IP app to be able to use other Homematic IP devices in the system. Detailed information on this can be found in the operating instructions for the Home Control Unit or Access Point.
- To pair the device, proceed as follows:

- Open the Homematic IP app on your smartphone.
  - Select the menu item “Pair device”.
  - Open the battery compartment (F) by pulling the cover of the battery compartment downwards (see figure).
  - Remove the insulation strip from the battery compartment. The pairing mode is active for 3 minutes.
- i** You can start pairing mode manually for another 3 minutes by briefly pressing the System button (E).



Figure 5

Your device will automatically appear in the Homematic IP app.

- To confirm, enter the last four digits of the device number (SGTIN) in your app, or scan the QR code. The device number can be found on the sticker supplied or attached to the device.

**i** The QR code and the last four digits of the SGTIN are displayed on the start screen of the device if it has not yet been paired. Press the System button (E) to skip the display.



Figure 6

- Wait until pairing is completed.
- If pairing was successful, the LED (E) lights up green. The device is now ready for use.
- If the LED lights up red, please try again.
- In the app, give the device a name and allocate it to a room.
- Follow the instructions in the app for further configuration.

## 6.2 Installation

**i** Please read this section completely before starting the installation process.

The Homematic IP Radiator Thermostat is easy to install, and requires no draining of heating water or intervention in the heating system. No special tools are required, nor does the heating have to be switched off.

The metal nut (A) attached to the radiator thermostat can be used universally and without accessories for all valves with a thread size of M30 x 1.5 mm from the most popular manufacturers. An overview and information about compatible manufacturers and valve adapters can be found at [www.homematic-ip.com](http://www.homematic-ip.com)

Using the adapters supplied, the device can also be installed on Danfoss RA, Danfoss RAV and Danfoss RAVL radiator valves (see „6.2.4 Adapter for Danfoss“ on page 35).

### 6.2.1 Removing a thermostat

**i** In case of visible damage to the existing thermostat, valve or heating pipes, please consult a specialist. Remove the old thermostatic head from your radiator valve:

- Rotate the thermostatic head anticlockwise to the maximum value (1). The thermostatic head then no longer presses against the valve spindle, making it easier to remove.

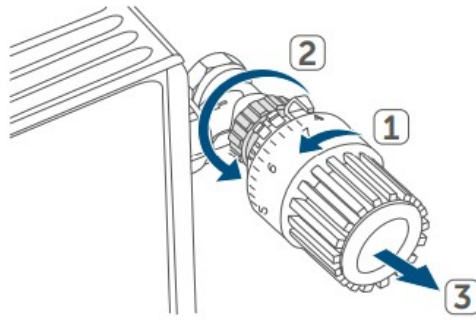


Figure 7

The thermostatic head may be held in place in various ways:

- Union nut: Unscrew the union nut in an anticlockwise direction (2). The thermostatic head can then be removed (3).
- Snap-on fastenings: Thermostatic heads that are fastened this way can be detached by turning the fastener/union nut anticlockwise a little. The thermostatic head can then be removed.
- Clamp fittings: The thermostatic head is held in place by a mounting ring, which is held together with a screw. Loosen this screw and remove the thermostatic head from the valve.
- Threaded connection with set screw: Loosen the set screw and remove the thermostatic head.

### 6.2.2 Installing the radiator thermostat

After removing the old thermostatic head, you can install the new radiator thermostat on the radiator valve. The installation instructions are also shown on the device display:

- Place the radiator thermostat with the metal nut (A) on the heating valve.

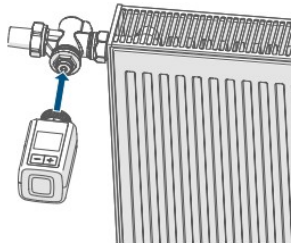


Figure 8

- Tighten the metal nut on the radiator valve.

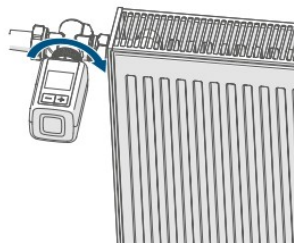


Figure 9



If required, you can use one of the supplied adapters for Danfoss valves, (see „6.2.4 Adapter for Danfoss“ on page 35), or the supplied support ring.

### 6.2.3 Support ring

With some manufacturers' valves, the part of the valve that protrudes into the device has only a small diameter, which causes the radiator thermostat to sit more loosely on the valve. In this case, the provided support ring



should be placed into the flange before installing the radiator thermostat. You can then install the radiator thermostat again as described above.

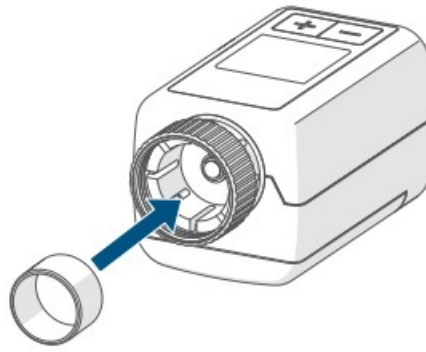



Figure 10


#### 6.2.4 Adapter for Danfoss

One of the adapters supplied is required to attach to Danfoss valves. The assignment of the suitable adapter to the relevant valve is shown in the following illustrations.

 Please be careful not to trap your fingers between the two halves of the adapter! The RA and RAV adapters have been manufactured with pre-tension for a better fit. Use a screwdriver during installation if necessary, and bend it open slightly in the vicinity of the screw.

##### Danfoss RA

Danfoss valve bodies have elongated notches around their circumference, which also ensure that the adapter is properly seated when it snaps on.

 During installation, please ensure that the pins inside the adapter are lined up with the notches on the valve.

- Snap the adapter completely onto the valve.
- Secure the adapter with the enclosed screw and nut.

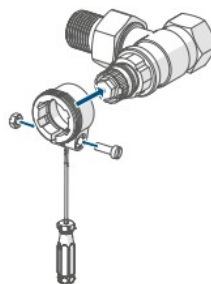



Figure 11

##### Danfoss RAV

Danfoss valve bodies have elongated notches around their circumference, which also ensure that the adapter is properly seated when it snaps on.

 During installation, please ensure that the pins inside the adapter are lined up with the notches on the valve.

- Snap the adapter completely onto the valve.
- Secure the adapter with the enclosed screw and nut.
- Place the spigot extension on the valve pin.

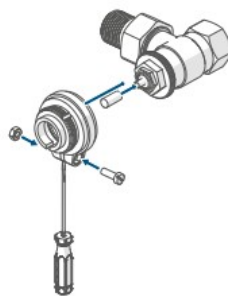


Figure 12

### Danfoss RAVL

Danfoss valve bodies have elongated notches around their circumference, which also ensure that the adapter is properly seated when it snaps on.

**i** During installation, please ensure that the pins inside the adapter are lined up with the notches on the valve.

- Snap the adapter completely onto the valve.
- Place the spigot extension on the valve pin.

**i** The RAVL adapter does not need to be screwed on.

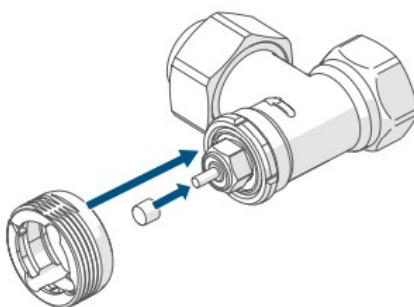


Figure 13

### 6.3 Adjustment run

**i** When the batteries are inserted, the motor retracts to simplify installation. During this time, “Installation” is displayed

**i** If the adjustment run was initiated prior to installation or if an error message is displayed (F1, F2, F3), press the System/Menu/Boost button (E).

After the radiator thermostat has been installed successfully, an adjustment run has to be performed in the next step in order to adapt the device to the valve. To do this, proceed as follows:

- Press the System/Menu/Boost button (E) to start the adjustment run.

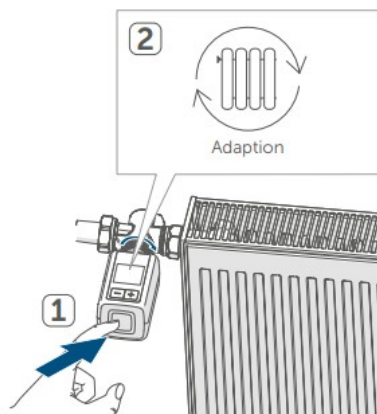


Figure 14



The adjustment run starts automatically 1 minute after inserting the batteries, provided the device has been paired.

## Configuration menu

If you operate the device without a Homematic IP Access Point, you can use the configuration menu after commissioning to directly select the following modes and adjust the settings to adapt the device to your personal needs:

- Pressing and holding the System/ Menu/Boost button (E) calls up the configuration menu.
- Select the desired symbol using the plus and minus buttons (C + D) and briefly press the Menu button to make settings for the various menu items.



Press and hold the System/Menu/ Boost button (E) to return to the previous level. The menu automatically closes without applying changes if there is no operation for more than 1 minute.



If you pair the device with the Homematic IP Home Control Unit or Homematic IP Access Point, you can conveniently make the settings via the free Homematic IP app.

If you have already made settings in the configuration menu, or if you have already directly paired the device with another

Homematic IP device, you first have to restore the factory settings of the device before you can pair the radiator thermostat with a Homematic IÜ Central Control Unit or Homematic IP Access Point (see „11 Restoring factory settings“ on page 45).



The display has a reduced mode with a particularly large temperature display and a functional mode with more details in the display (see „7.8 Display mode“ on page 40).

### 7.1 Manual mode

In manual mode, the temperature is controlled using the plus or minus buttons (C + D). The temperature remains stored until the next manual change. To enable manual mode, proceed as follows:


- Press and hold the System/Menu/ Boost button (E) for approx. 2 seconds to open the configuration menu.
- Select menu item “MODE” using the plus and minus buttons (C + D) and confirm with the System/ Menu/Boost button.
- Select menu item “MANU” using the plus and minus buttons (C + D) and confirm with the System/ Menu/Boost button (E).
- This calls up the start screen on which “MANU” (Functional Mode) or the temperature (Reduced Mode) is displayed.

### 7.2 Automatic mode

To change the operating mode, you first have to set the date and time (see „7.6 Time and date“ on page 39).

In automatic mode, the temperature is controlled in accordance with the set heating schedule. Manual changes are enabled until the next point at which the profile changes. Afterwards, the defined heating schedule will be enabled again. To enable automatic mode, proceed as follows:

- Press and hold the System/Menu/ Boost button (E) for approx. 2 seconds to open the configuration menu.
- Select menu item “MODE” using the plus and minus buttons (C + D) and confirm with the System/ Menu/Boost button (E).


Use the plus or minus buttons (C + D) to select the menu item  “AUTO” (Functional Mode) and confirm with the System/Menu/Boost button (E).

- This calls up the start screen on which the heating profile “  06:00  
21.0 °C” (Functional Mode) is displayed.

### 7.3 Eco mode

Eco mode can be used to permanently maintain a fixed temperature for a certain period (e.g. during your holidays or during a party).

To enable Eco mode, proceed as follows:

- Press and hold the System/Menu/ Boost button (E) for approx. 2 seconds to open the configuration menu.
- Select menu item “MODE” using the plus and minus buttons (C + D) and confirm with the System/ Menu/Boost button.
- Select menu item “PARTY” using the plus and minus buttons (C + D) and confirm with the System/ Menu/Boost button (E).
- Select the hours using the plus and minus buttons and confirm with the System/Menu/Boost button (E).
- Select the minutes using the plus and minus buttons and confirm with the System/Menu/Boost button (E).
- Select the month using the plus and minus buttons and confirm with the System/Menu/Boost button (E).
- Select the day using the plus and minus buttons and confirm with the System/Menu/Boost button (E).
- Select the temperature using the plus and minus buttons and confirm with the System/Menu/Boost button (E).
- This calls up the start screen, on which  “ ECO” (Functional Mode) is displayed.

### 7.4 Offset temperature

As the temperature is measured on the radiator thermostat, the temperature distribution can vary throughout a room. To adjust for this, a temperature offset of  $\pm 3.5$  °C can be set. If, for example, 18 °C is measured instead of the 20 °C set, an offset of -2.0 °C must be set. An offset temperature of 0.0 °C is set in the factory settings. To adjust the offset temperature, please proceed as follows:

- Press and hold the System/Menu/ Boost button (E) for approx. 2 seconds to open the configuration menu.
- Select menu item “OFFSET” using the plus and minus buttons (C + D) and confirm with the System/ Menu/Boost button (E).
- Select the desired offset temperature using the plus and minus buttons and confirm with the System/ Menu/Boost button (E).
- This returns you to the start screen.

### 7.5 Programming a heating schedule

In this menu item, you can create a heating schedule with six heating and cooling phases (13 change settings) according to your personal needs:

- Press and hold the System/Menu/ Boost button (E) for approx. 2 seconds to open the configuration menu.
- Select “RES” using the plus and minus buttons (C + D) and confirm with the System/Menu/Boost button (E).
- Use the plus or minus buttons (C + D) to select the individual days of the week, all working days, the weekend or the entire week for your heating profile and confirm with the System/Menu/Boost button (E).
- Confirm the start time 00:00 with the System/Menu/Boost button (E).
- Select the desired temperature for the end time using the plus and minus buttons and confirm with the System/Menu/Boost button (E).
- Select the desired temperature for the next time period using the plus and minus buttons and confirm with the System/Menu/Boost button (E).
- The next time is shown in the display. You can adjust this time using the plus and minus buttons.

- Repeat this procedure until temperatures are stored for the entire period between 0:00 and 23:59 h.
- This returns you to the start screen.

## 7.6 Time and date

To set the date and time, please proceed as follows:

- Press and hold the System/Menu/ Boost button (E) for approx. 2 seconds to open the configuration menu.
- Select menu item "DATE&TIME" using the plus and minus buttons (C + D) and confirm with the System/Menu/Boost button (E).
- Select the year using the plus and minus buttons and confirm with the System/Menu/Boost button (E).
- Select the month using the plus and minus buttons and confirm with the System/Menu/Boost button (E).
- Select the day using the plus and minus buttons and confirm with the System/Menu/Boost button (E).
- Select the hours using the plus and minus buttons and confirm with the System/Menu/Boost button (E).
- Select the minutes using the plus and minus buttons and confirm with the System/Menu/Boost button (E).
- This returns you to the start screen.

After restarting the device, the date and time must first be set in order to access the other menu items.

## 7.7 Pairing

You can use the "PAIRING" menu item to link the device directly with other suitable devices (see „6.1.1 Direct pairing with a Homematic IP device“ on page 30). To do this, proceed as follows:

- Press and hold the System/Menu/ Boost button (E) for approx. 2 seconds to open the configuration menu.
- Select "RES" using the plus and minus buttons (C + D) and confirm with the System/Menu/Boost button (E).
- Pairing mode is started and the System/Menu/Boost button (E) flashes orange.

## 7.8 Display mode

You have the option of rotating the display in 90° increments or adjusting the display mode. To do this, proceed as follows:

- Press and hold the System/Menu/ Boost button (E) for approx. 2 seconds to open the configuration menu.
- Select "RES" using the plus and minus buttons (C + D) and confirm with the System/Menu/Boost button (E).
- Use the plus or minus buttons (C + D) to select the "Rotate" or "Mode" menu item and confirm with the System/Menu/Boost button (E).
- Under "Rotate", use the plus or minus buttons (C + D) to select the angle rotation (0°, 90°, 180° or 270°) and confirm with the System/ Menu/Boost button (E).
- Under "Mode", use the plus or minus buttons (C + D) to select "re- duced" or "functional" mode and confirm with the System/Menu/ Boost button (E).
- This returns you to the start screen.

## 7.9 Operating lock

Operation of the device can be locked to avoid settings being changed unintentionally (e.g. by accidentally touching the screen). To disable the operating lock, proceed as follows:

- Press and hold the System/Menu/ Boost button (E) for approx. 2 seconds to open the configuration menu.
- Use the plus or minus buttons (C + D) to select the "OPERATING LOCK" menu item and confirm with the System/Menu/Boost button (E).

- This takes you to the start screen, on which the lock symbol “ ” (Functional Mode) is displayed.


To deactivate the operating lock, please proceed as follows:

- Press and hold the plus and minus buttons (C + D) and the System/ Menu/Boost button (E) at the same time.
- The lock symbol “ ” disappears.

## Operation

After configuration, simple operations are available directly on the device.

- Temperature: Press the plus or minus button (C + D) to manually change the radiator temperature. In automatic mode, the manually set temperature will remain the same until the next point at which the schedule changes. Afterwards, the defined heating schedule will be enabled again. During manual mode, the temperature remains activated until the next manual change.
- Boost function: Briefly press the System/Menu/Boost button (E) to enable the boost function for heating up the radiator quickly and briefly by opening the valve. There will be a pleasant room temperature right away because of the radiated heat.

 If you have paired the device with a Homematic IP Home Control Unit or Homematic IP Access Point, you can configure the LED colour of the System/Menu/Boost button (E) for various actions directly in the app. A long press of the System/Menu/Boost button (E) toggles between automatic mode and manual mode.

## Changing the batteries

If the symbol for empty batteries ( ) appears in the display or in the app, please replace the used batteries with two new LR6/Mignon/AA batteries. You must observe the correct battery polarity.

To insert new batteries, proceed as follows:

- Open the battery compartment (F) by pulling the cover of the battery compartment downwards (see figure).
- Remove the batteries.
- Place two new 1.5 V LR6/Mignon/ AA batteries in the battery compartment, observing the polarity marks.

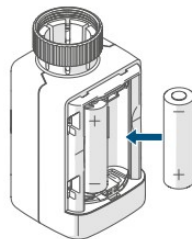


Figure 15

- After inserting the batteries, pay attention to the flashing sequences of the LED (see „10.4 Error codes and flashing sequences“ on page 43).

Once the batteries have been inserted, the radiator thermostat will perform a self-test and an adjustment run, if required (approx. 2 seconds). Afterwards, initialisation is carried out. The LED test display will indicate that initialisation is complete by lighting up orange and green.

## Troubleshooting

### 10.1 Weak batteries

Provided that the voltage value permits it, the radiator thermostat will remain ready for operation even if the battery voltage is low. Depending on the particular load, it may be possible to send transmissions again repeatedly once the batteries have been allowed a brief recovery period.

If the voltage drops too far during transmission, the empty battery symbol ( ) and the corresponding error code will be displayed on the device, (see „10.4 Error codes and flashing sequences“ on page 43). In this case, replace the empty batteries with two new ones (see „9 Changing the batteries“ on page 41).

### 10.2 Command not confirmed

If at least one receiver does not confirm a command, the System/Menu/ Boost button (E) lights up red at the end of the failed transmission process.

The reason for the failed transmission may be radio interference (see „13 General information about radio operation“ on page 46). This may be caused by the following:

- Receiver cannot be reached.
- Receiver is unable to execute the command (load failure, mechanical blockage, etc.) or
- Receiver is faulty.





### 10.3 Duty cycle

The duty cycle is a legally regulated limit of the transmission time of devices in the 868 MHz range. The aim of this regulation is to safeguard the operation of all devices working in the 868 MHz range. In the 868 MHz frequency range used by us, the maximum transmission time of any device is 1% of an hour (i.e. 36 seconds in an hour). Devices must cease transmission when they reach the 1% limit until this time restriction comes to an end. Homematic IP devices are designed and produced with 100% conformity to this regulation.

During normal operation, the duty cycle is not usually reached. However, repeated and radio-intensive pairing processes mean that it may be reached in isolated instances during start-up or initial installation of a system. If the duty cycle is exceeded, this is indicated by three slow red flashes of the System/Menu/Boost button (E), and may manifest itself in the device temporarily not working. The device starts working correctly again after a short period (max. 1 hour).

### 10.4 Error codes and flashing sequences


Flashing code / LC display	Meaning	Solution
----------------------------	---------	----------

F1	Valve drive sluggish	Please check whether the valve pin is stuck.
F2	Adjustment range too large	Please check that the radiator thermostat is fitted tightly.
F3	Adjustment range too small	Please check whether the valve pin is stuck.
Battery symbol in functional mode (  )	Battery voltage low	Replace the device batteries (see „9 Changing the batteries“ on page 41).
Battery symbol (  ) filling the display	Valve moved to error position*	Replace the device batteries (see „9 Changing the batteries“ on page 41).
<p>*If empty batteries are not replaced, the radiator thermostat moves to a “valve error position”. This avoids a situation where the set temperature in the room cannot be reached any more due to a low battery. A valve error position of 15% is set in the factory settings.</p>		
Antenna symbol crossed out (  )	Communication fault with the Homematic IP Home Control Unit or Homematic IP Access Point or paired device	Check the connection to the Homematic IP Home Control Unit or the Homematic IP Access Point or paired devices.
Lock symbol (  )	Operating lock activated	Deactivate the operating lock via the app.
Short orange flashes	Radio transmission/attempting to transmit/configuration data is transmitted	Wait until the transmission is completed.
1x long green light	Transmission confirmed	You can continue operation.
1x long red flash	Transmission failed or duty cycle limit reached	Please try again (see „10.2 Command not confirmed“ on page 42) or (see „10.3 Duty cycle“ on page 42).
Short orange flashes (every 10 s)	Pairing mode active	Enter the last four digits of the device serial number to confirm (see „6.1.2 Pairing at the Home Control Unit/Access Point“ on page 32).



Fast orange flashing	Direct pairing mode active	Enable the pairing mode of the device you would like to add (see „6.1.1 Direct pairing with a Homematic IP device“ on page 30).
Brief steady orange light (after green or red confirmation)	Batteries flat	Replace the batteries (see „9 Changing the batteries“ on page 41).
6x long red flashes	Device defective	Please see the display on your app for error messages or contact your retailer.
1x steady orange and 1x steady green light (after inserting batteries)	Test display	You can continue once the test display has stopped.
Alternating long and short orange flashing	Device software updating (OTAU)	Wait until the update is completed.


## Restoring factory settings

 The factory settings of the device can be restored. If you do this, you will lose all your settings. To restore the factory settings of the device, please proceed as follows:

- Open the battery compartment (F) by pulling the cover of the battery compartment downwards ( see figure).
- Remove one battery.
- Re-insert the battery, observing the correct polarity, while simultaneously pressing and holding the System/Menu/Boost button (E). Press and hold the System/Menu/Boost button (E) until the LED (E) starts to flash orange quickly.
- Briefly release the System/Menu/ Boost button (E) then press and hold the System/Menu/Boost button (E) again until the orange flashing light changes to a steady green light.
- Release the System/Menu/Boost button (E) again to finish restoring the factory settings.


The device will perform a restart.

## Maintenance and cleaning

 The device does not require you to carry out any maintenance other than replacing the battery when necessary. Leave any maintenance or repair to a specialist.  
Clean the device using a soft, clean, dry and lint-free cloth. Dampen the cloth slightly with lukewarm water to remove more stubborn marks. Do not use any detergents containing solvents, as they could corrode the plastic housing and label.

## General information about radio operation

Radio transmission is performed on a non-exclusive transmission path, which means that there is a possibility of interference occurring. Interference can also be caused by switching operations, electrical motors or defective electrical devices.

 The transmission range within buildings can differ significantly from that available in open space. Besides the transmitting power and the reception characteristics of the receiver, environmental factors such as humidity in the vicinity play an important role, as do on-site structural/screening conditions.  
eQ-3 AG, Maiburger Strasse 29, 26789 Leer, Germany, hereby declares that the radio equipment type

Homematic IP HmIP-eTRV-F is compliant with Directive 2014/53/EU. The full text of the EU declaration of conformity can be found at: [www.homematic-ip.com](http://www.homematic-ip.com)

## Disposal

### Instructions for disposal



This symbol means that the device and the single-use or rechargeable batteries must not be disposed of with household waste, the residual waste bin or the yellow bin or yellow bag.

For the protection of health and the environment, you must take the product, all electronic parts included in the package contents, and the batteries to a municipal collection point for waste electrical and electronic equipment to ensure correct disposal of the same. Distributors of electrical and electronic equipment or batteries must also take back waste equipment or used batteries free of charge.

By disposing of them separately, you are making a valuable contribution to the reuse, recycling and other methods of recovery of used devices and used batteries.

You must separate any used single-use and rechargeable batteries found in used electrical and electronic devices from the used device if they are not enclosed by the used device before handing it over to a collection point and dispose of them separately at the local collection points.

Please also remember that you, the end user, are responsible for deleting personal data on any used electrical and electronic equipment before disposing of it.

### Information about conformity



The CE mark is a free trademark that is intended exclusively for the authorities and does not imply any assurance of properties.



For technical support, please contact your retailer.

## Technical specifications

### Device short description:

Device short description:	HmlIP-eTRV-F
Supply voltage:	2x 1.5 V LR6/Mignon/AA
Current consumption:	130 mA max.
Battery life:	3 years (typical)
Protection rating:	IP20
Pollution degree:	2
Ambient temperature:	0 to 50°C
Dimensions (W x H x D):	53 x 52 x 94 mm
Weight:	180 g (including batteries)
Radio frequency band:	868.0-868.6 MHz 869.4-869.65 MHz
Max. radio transmission power:	10 dBm
Receiver category:	SRD category 2
Typical range in open space:	250 m
Duty cycle:	< 1 % per h/< 10 % per h
Software class:	Class A
Method of operation:	Type 1
Connection:	M30 x 1.5 mm
Controlling torque:	> 80 N
Valve travel:	4.3 ± 0.3 mm
Maximum travel position:	13.8 ± 0.3 mm
Minimum travel position:	9.5 ± 0.3 mm

**Subject to modifications.**

homematic 

Kostenloser Download der

Homematic IP App!

Free download of the

Homematic IP app!

Manufacturer's authorised representative:

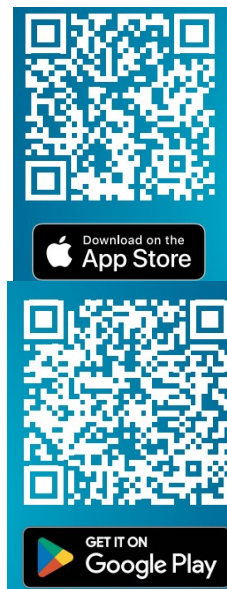
eQ-3

eQ-3 AG


Maiburger Strake 29

26789 Leer / GERMANY

[www.eQ-3.de](http://www.eQ-3.de)



## Documents / Resources

	<p><a href="#">homematic IP HmIP-eTRV-F Radiator Thermostat Flex</a> [pdf] Instruction Manual 160230A0, 591845, HmIP-eTRV-F Radiator Thermostat Flex, HmIP-eTRV-F, Radiator Thermost at Flex, Thermostat Flex</p>
--	---

## References

- [e Startseite - eQ-3](#)
- [IP Home page | Homematic IP](#)
- [IP Smart Home: Systeme und Geräte erleben | Homematic IP](#)
- [User Manual](#)

### Manuals+, Privacy Policy

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.