

# CZW-250 Energy-Saving Controller with WiFi

## OPERATING INSTRUCTIONS



# LEGAL NOTICE

## Operating Instructions CZW-250 Energy-Saving Controller with WiFi

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Operating Instructions

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These operating instructions will guide you through the commissioning and use of your CZW-250 and answer all essential questions. Read these operating instructions carefully before using your CZW-250. Hand over all documents when passing it on to third parties.

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# 1 SAFETY INFORMATION

In addition to the safety information in these operating instructions, all other available sources must also be observed.

The areas of use defined in the written explanations of the **proper use** must be observed.

## 1.1 DEPICTION OF WARNINGS

The warnings used in these operating instructions have the following meaning:



### CAUTION!:

Moderate to minor personal injury may occur if warnings with this signal word are disregarded.

→ Probability of occurrence: possible



### IMPORTANT!

Material damage can occur if warnings with this signal word are disregarded.

→ Probability of occurrence: possible



### INFORMATION

Contains additional information.

## 1.2 WARNINGS

When operating your CZW-250 and its components, hazards may occur that can be avoided by observing the following warnings.



### CAUTION!:

#### **Serious risk of injury caused by exploding batteries!**

Improper handling of batteries can lead to an explosion.

- Do not heat batteries and do not throw batteries into open fire.
- Do not place batteries in direct sunlight.
- Protect batteries from excessive heat.
- Do not short-circuit the batteries.
- Never attempt to charge non-rechargeable batteries.
- Never dismantle batteries.
- Do not use new and used batteries together.
- When inserting the batteries, observe the correct polarity (+/-).
- Before inserting the batteries, clean the batteries and the contacts in the thermostat.



### CAUTION!:

#### **Serious risk of injury caused by chemical burns!**

Leaking battery acid can cause burns.

- Avoid contact of battery acid with skin, eyes and mucous membranes.
- In case of contact with battery acid, immediately rinse the affected areas with plenty of clean water and consult a doctor.



### CAUTION!:

#### **Serious risk of injury caused by malfunction!**

Malfunctions can lead to injuries.

- NEVER carry out repairs to your CZW-250 yourself.
- Do not open your CZW-250.
- Do not carry out any modifications or conversions on your CZW-250.
- In the event of an error, contact Customer Service.



**CAUTION!:**

**Risk of fatal injury and accidents to infants and children!**

The CZW-250 and packaging material represent a risk of choking and suffocation.

- Never leave children unsupervised with your CZW-250 or the packaging material. Children often underestimate the risks involved. Always keep children away from your CZW-250 and the packaging material.
- Keep batteries out of reach of children. Should a battery be swallowed, seek medical attention immediately.
- Your CZW-250 is not a toy.



**IMPORTANT!**

**Material damage and malfunction possible!**

Your CZW-250 can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been supervised or instructed in the safe use of your CZW-250 and understand the hazards involved.

- Children may not play with your CZW-250.
- Cleaning and user maintenance must not be carried out by children without supervision.



**IMPORTANT!**

**Material damage and malfunction possible!**

Environmental influences can affect the functions of your CZW-250.

- Keep your CZW-250 away from direct sunlight.
- Only use your CZW-250 in a dry, dust-free environment.



**IMPORTANT!**

**Material damage and malfunction possible!**

Damaged components and/or malfunctions will prevent your CZW-250 from functioning properly.

- If material damage and/or malfunctions occur, contact the Customer Service of Eurotronic Technology GmbH.

## 2 SCOPE OF DELIVERY

Check the scope of delivery for completeness as well as visual and technical defects before putting your CZW-250 into operation.

- 1× CZW-250 Energy-Saving Controller
- 1× Quick Guide
- 3× Adapter (Danfoss RA/RAV/RAVL)
- 1× Screw for adapter
- 2× AA/LR6 batteries
- 1× Reset button (only for older models)



### IMPORTANT!

#### Material damage and malfunction possible!

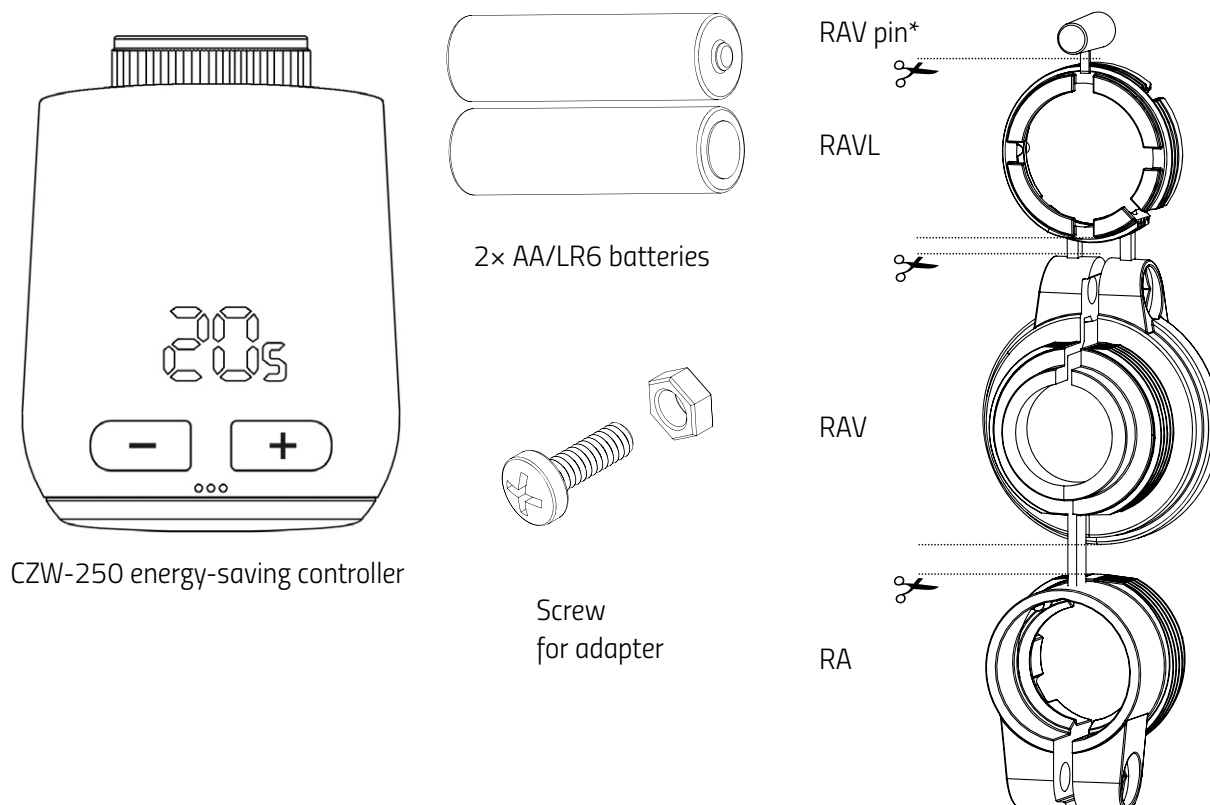
Damaged components and/or malfunctions will prevent your CZW-250 from functioning properly.

→ If material damage and/or malfunctions occur, contact the Customer Service of Eurotronic Technology GmbH.



### INFORMATION

The following drawings are for the purpose of illustration and are not necessarily to scale. EUROtronic Technology GmbH reserves the right to change the design or dimensions without prior notice.



\*When using the RAV adapter, the RAV pin is required to extend the valve plunger.

# 3 OVERVIEW

Thank you for choosing a product from EUROtronic Technology GmbH. Your CZW-250 is an energy-saving controller for radiators equipped with the WiFi radio standard with modern, simple operation. It automatically regulates your room temperature according to your specifications and is configurable, either directly on the controller or conveniently with a smartphone via your WiFi network.

Your CZW-250 helps you to effectively reduce your heating costs.

Development and production are 100% "Made in Germany", which guarantees premium quality and technology. These operating instructions will help you to get your CZW-250 up and running quickly and easily.

## 3.1 PROPER USE

Your CZW-250 is used to regulate a radiator valve. This makes it possible to regulate the room temperature time-controlled and via an app. Your CZW-250 moves a radiator valve to control the flow of heat into the radiator. Your CZW-250 can be installed on all common radiator valves. Only use your CZW-250 indoors.

Any use other than that described in these operating instructions is not in accordance with the proper use and will result in the warranty being voided and exclusion of liability. It is forbidden to complete any unauthorised modifications, conversions and repairs. Your CZW-250 is intended for private use only.



### INFORMATION

The drawings in these instructions are for the purpose of illustration and are not necessarily to scale. Product designations and pictograms on screenshots may differ from the actual product.



**Reduce heating costs**  
with energy-efficient control.

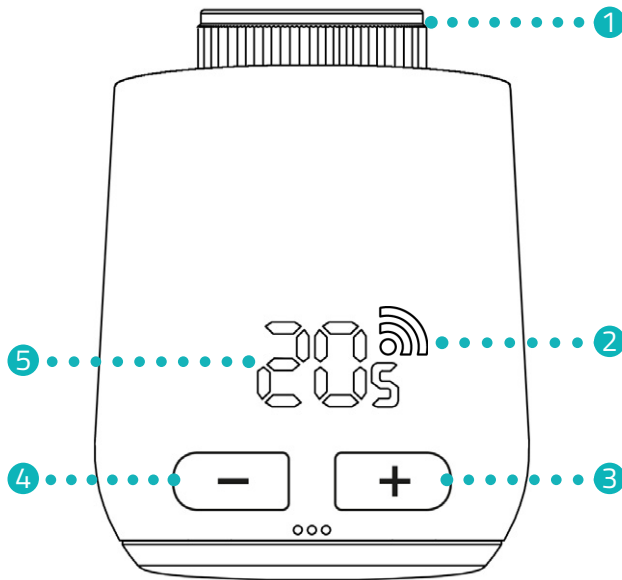
**WiFi connection**  
Control and configure your CZW-250 via the 2.4 GHz WiFi network.




**Easy assembly**  
without intervention in the heating water circuit.

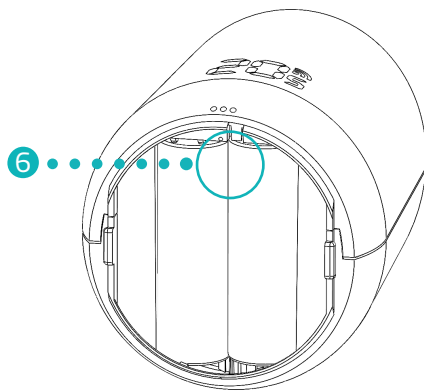


# 4 CONTROLS AND DISPLAY ELEMENTS

The following section describes the controls and display elements of your CZW-250.



-  **Symbol lights up**  
Connected to server
-  **Symbol flashes**  
Connection to server is established
-  **Symbol off**  
No connection to WiFi network



- 1 Union nut
- 2 Wireless symbol
- 3 + button (increase temperature)
- 4 - button (decrease temperature)
- 5 Temperature display
- 6 Reset button

# 5 PUTTING INTO OPERATION

The following section describes the procedure using the **Eurotronic Smart Living 2.0** app for the Android operating system (app version: 1.2). The procedure may differ for the iOS operating system.

Your CZW-250 is also compatible with Alexa voice control.

You can find more information in the **Alexa Guide** at: <https://eurotronic.org/service/downloads/alexa/>



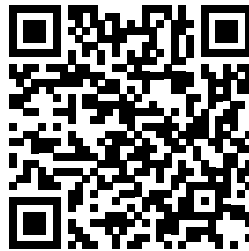
## INFORMATION

The following illustrations show the app at the time of publication of these operating instructions. Newer versions of the app may differ in appearance and content. The illustrations in these instructions are for illustrative purposes only. Product designations and pictograms on screenshots may differ from the actual product.

## 5.1 INSTALLING EUROTTRONIC SMART LIVING 2.0 APP

1. Download the **Eurotronic Smart Living 2.0** app from Google Play (Android) or the App Store (iOS).
2. Install the app on your smartphone.

**System requirements:**  
Android from version 6.0  
iOS from version 13

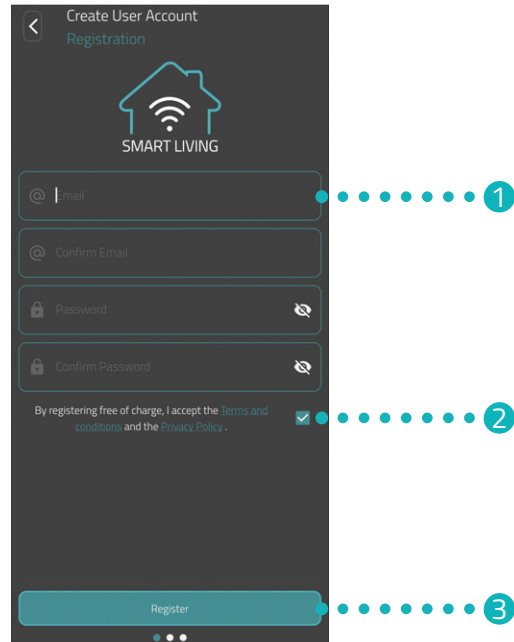


## INFORMATION

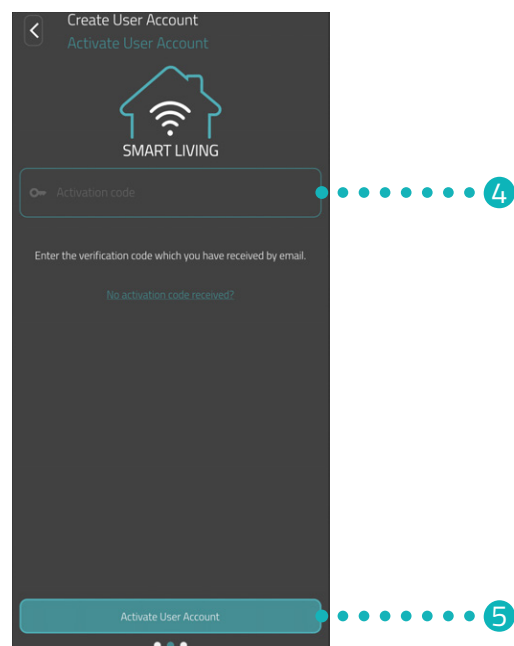
During the initial setup of the app, requests are made as to whether the app is granted authorisation to access functions of your smartphone. Allow access to use the full range of functions of your CZW-250.

## 5.2 CREATING USER ACCOUNT

You must create a user account to use the app:

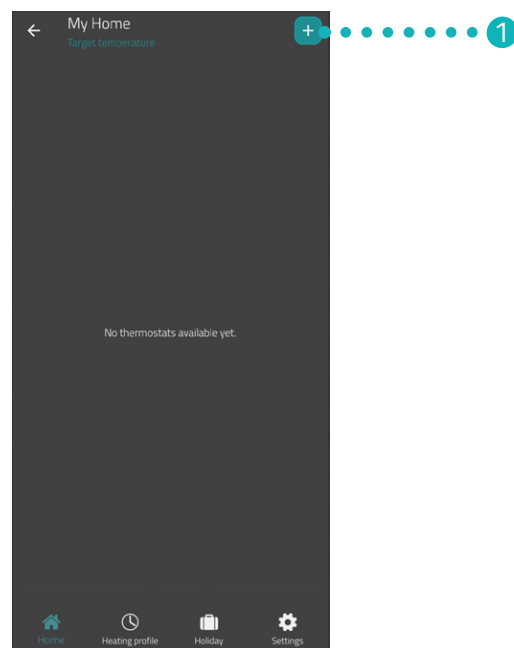


1. Create a user account. Enter your e-mail address and assign a password. Make sure your e-mail is valid. The validity of the e-mail address will not be checked.
2. Check the box to accept the general terms and conditions and data protection policy.
3. Tap the **Register** button.
  - You will receive an activation code by e-mail to verify your user account. Also check your spam folder.



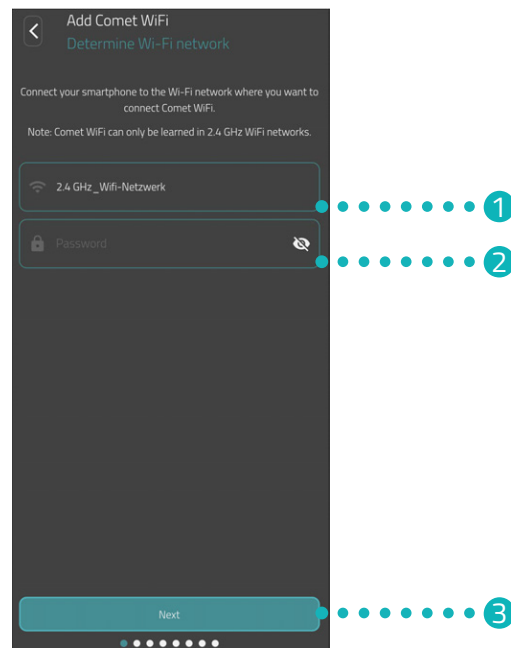
4. Enter the activation code in the **input field**.
5. Tap the **Activate User Account** button.
  - You have successfully created your user account.

## 5.3 ADDING NEW DEVICE



1. Tap the + button to add a new device.
2. Then follow the steps displayed in the setup wizard to set up your CZW-250 for initial operation.  
→ You have successfully added your CZW-250.

## 5.4 SELECTING NETWORK



1. The WiFi network to which your smartphone is connected is automatically displayed. You can integrate your CZW-250 in another WiFi network if required.



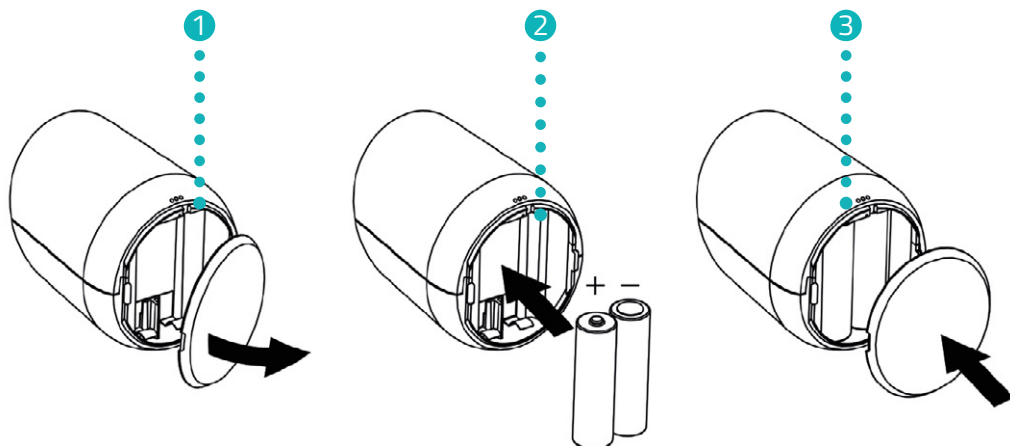
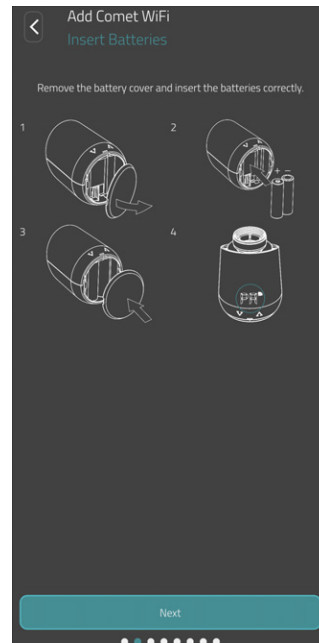
### INFORMATION

For your WiFi to be displayed in the **My WiFi Network** field, the following requirements must be met:

- Your WiFi must transmit in the 2.4 GHz frequency range. If your router only supports the 5 GHz frequency range, operation of your CZW-250 is not possible. For more information, see the operating instructions for your router.
- The location detection (GPS) of your smartphone must be activated.
- The **Eurotronic Smart Living 2.0** app requires authorisation to access your location (GPS). Adjust this setting in your smartphone if necessary. For more information, see the operating instructions for your smartphone.

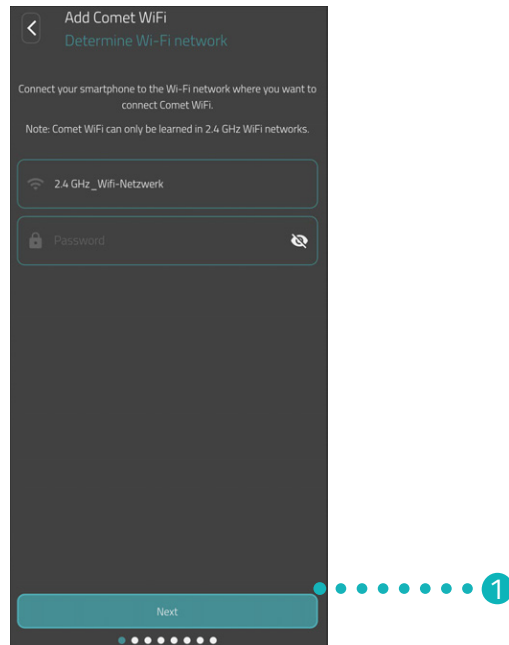
2. Enter your WiFi password in the input field. Make sure you spell your password correctly. The app will not check your WiFi's password. If the password is entered incorrectly, the setup process will still continue, but the connection to your CZW-250 cannot be established.
3. Tap the **Next** button.
  - ➔ You have successfully connected your CZW-250 to your WiFi network.

## 5.5 INSERTING BATTERIES



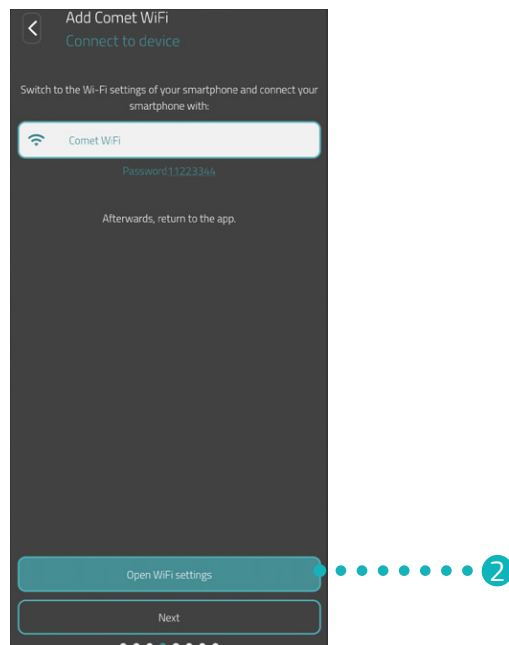
1. Open the battery compartment cover.
2. Insert the batteries provided as shown.  
**Pay attention to the correct polarity and do not use rechargeable batteries!**
3. Close the battery compartment cover. The battery compartment cover audibly clicks into place.  
→ You have successfully inserted the batteries.

## 5.6 TEACHING IN CZW-250

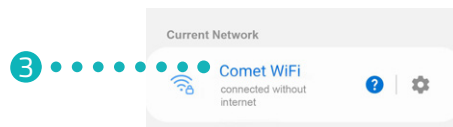


PA appears on the display of your CZW-250 and the wireless symbol flashes. Your CZW-250 is ready to connect to your WiFi network.

1. Tap the **Next** button.



2. Tap the **Open WiFi Settings** button to switch to the WiFi settings of your smartphone.



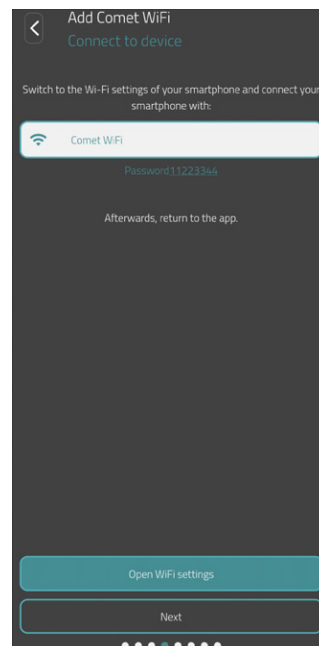
3. Select your CZW-250 in the WiFi settings of your smartphone. Depending on the software version, your CZW-250 is displayed in the WiFi settings with the designation "Comet WiFi" or "Eurotronic".
4. When prompted, enter the password displayed in the app (from factory 11223344) in the input field to connect to your CZW-250.
  - ➔ A loading animation appears on the display of your CZW-250.
  - ➔ Your CZW-250 is connected to your WiFi and the app. The process may take a moment.



### INFORMATION

During setup, you are briefly connected to the WiFi network of your CZW-250 and a message may be displayed informing you that you are not connected to the Internet. Confirm this message to stay connected to your CZW-250 and continue with the setup.

5. Switch back to the **Eurotronic Smart Living 2.0** app.



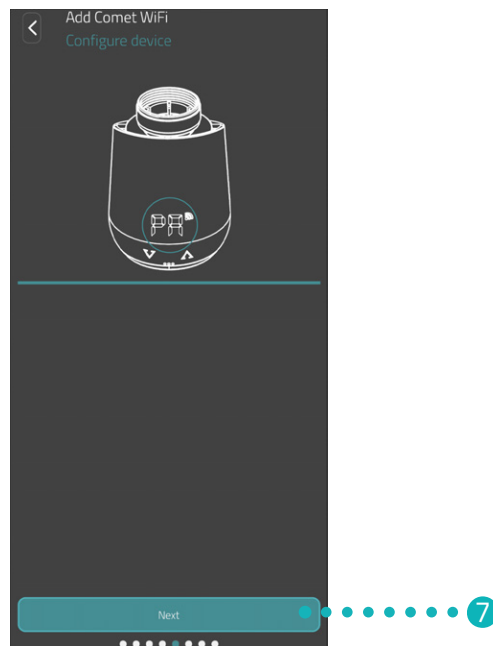
6. Tap the **Next** button.



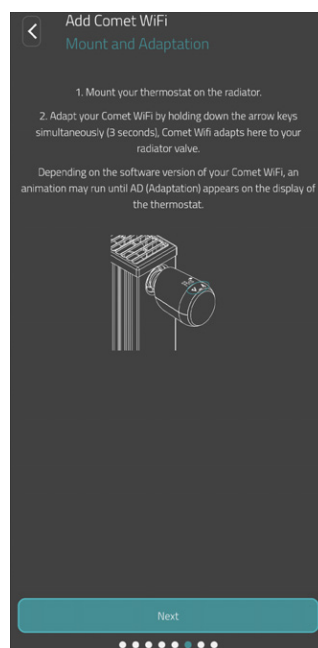
### INFORMATION


If you are using a CZW-250 with an older software version, a software update will automatically be carried out after the setup.





7. Tap the **Next** button.



8. Now install your CZW-250 on your radiator (see  Section **5.7 Installing on radiator on Page 18**) and tap the **Next** button.



### INFORMATION

If the setup is not completed, ensure the following points:

- Temporarily deactivate the mobile data of your smartphone.
- Activate the location detection (GPS) of your smartphone and allow the app to access it.

## 5.7 INSTALLING ON RADIATOR

Install your CZW-250 on the desired radiator when indicated by the app.

The CZW-250 can be installed on all known valve bodies (see adapter list at [www.eurotronic.org/service/faq](http://www.eurotronic.org/service/faq)).



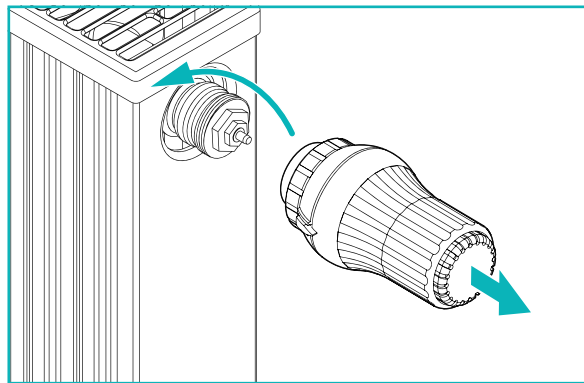
### CAUTION!:

#### Burns caused by hot radiator valve!

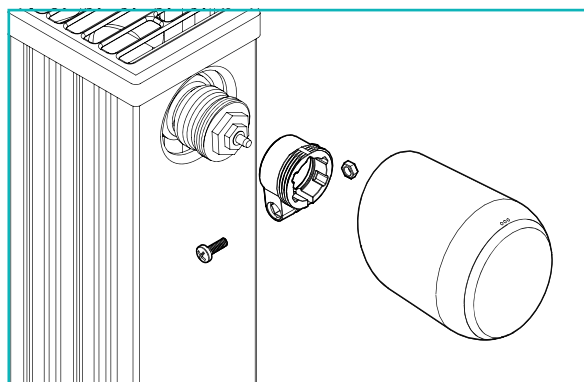
Touching can cause burns to the hand.

Avoid contact of battery acid with skin, eyes and mucous membranes.

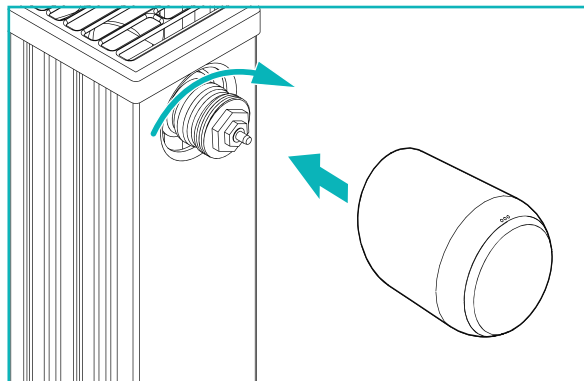
- Allow the radiator to cool down before installing, removing or troubleshooting your CZW-250!




1. Open the current thermostatic head completely. Loosen the fastening and pull the thermostatic head off the radiator.



2. Optional: Select a suitable adapter from the scope of delivery. For additional information on the adapters, please see the  Section **5.8 Adapter overview on Page 20**.



3. Position your CZW-250 on the radiator and turn the union nut clockwise.
  - ➔ You have successfully installed your CZW-250.
  - ➔ Following installation, start the adaptation, see  Section **5.9 Adapting CZW-250 on Page 22**.

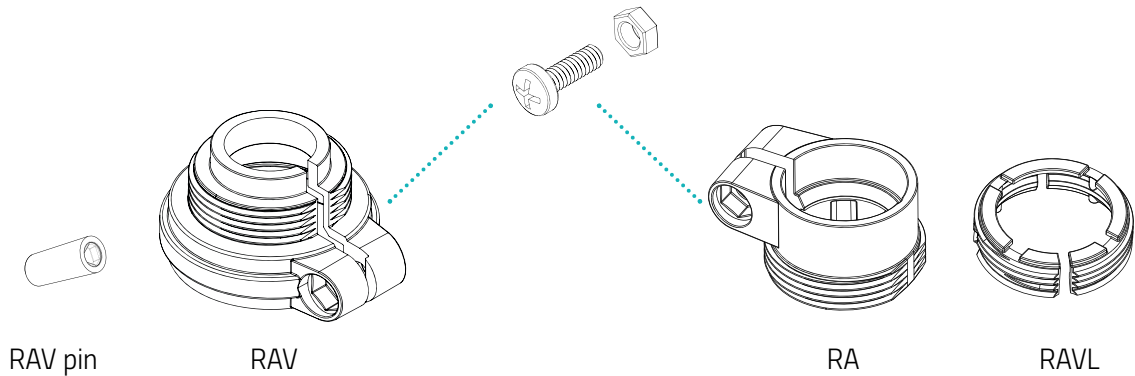


#### INFORMATION

When installing/removing at a later date, please note that your CZW-250 must be in the adaptation mode. To do this, open the battery compartment cover and remove the batteries. Replace the batteries after approx. 10 sec. and close the battery compartment cover. Your CZW-250 restarts and is in the adaptation mode. **Ad** appears in the display.

## 5.8 ADAPTER OVERVIEW

The following overview contains information about the valves and the required adapters. The adapters for Danfoss RAV, Danfoss RA and Danfoss RAVL are included with your CZW-250. When using the Danfoss RAV adapter, the RAV pin must be inserted on the valve plunger.

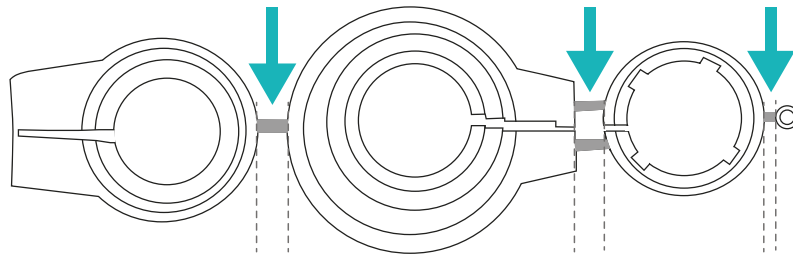


Valve	Thread dimension	Adapter
Heimeier	M30 x 1.5 mm	Not required
Junkers Landys+Gyr	M30 x 1.5 mm	Not required
MNG	M30 x 1.5 mm	Not required
Honeywell	M30 x 1.5 mm	Not required
Braukmann	M30 x 1.5 mm	Not required
Herz	M28 x 1.5 mm	Required; not in scope of delivery
Comap	M28 x 1.5 mm	Required; not in scope of delivery
Vaillant	30.5 mm	Required; not in scope of delivery
Oventrop	M30 x 1.0 mm	Required; not in scope of delivery
Meges	M38 x 1.5 mm	Required; not in scope of delivery
Ondal	M38 x 1.5 mm	Required; not in scope of delivery
Giacomini	22.6 mm	Required; not in scope of delivery
Rosswainer	M33 x 2.0 mm	Required; not in scope of delivery
Markaryd	M28 x 1.0 mm	Required; not in scope of delivery
Ista	M32 x 1.0 mm	Required; not in scope of delivery
Vama	M28 x 1.0 mm	Required; not in scope of delivery
Pettinaroli	M28 x 1.5 mm	Required; not in scope of delivery
T+A	M28 x 1.5 mm	Required; not in scope of delivery
Gampper 1/2/6	M20	Required; not in scope of delivery
Danfoss RA/RAV/RAVL	25.5/30.5/30 mm	Included in scope of delivery



### INFORMATION

Remove the connecting pieces of the plastic adapters completely (see illustration) before using one of the adapters included! For Danfoss RAV and Danfoss RA, use the screw and nut provided.



### CAUTION!:

#### **Danger of becoming trapped between the adapter halves!**

Carelessness when using adapters can lead to injuries.

→ Take care not to become trapped between the adapter halves during installation!



### CAUTION!:

#### **Danger of being cut!**

The adapters supplied and the plunger extension are connected by plastic bars. Fractures may be sharp-edged.

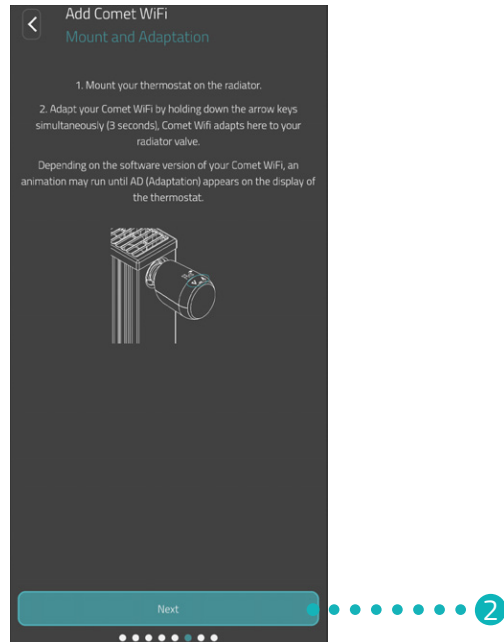
→ Be careful not to cut your fingers during installation!

You can purchase further metal adapters for a fee from our partners. You will find an overview of the metal adapters and corresponding ordering options under the following link:

<https://eurotronic.org/produkte/zubehoer/metalladapter/>

## 5.9 ADAPTING CZW-250

After successful assembly, your CZW-250 can start adapting. The prerequisite is that **Ad** is shown in the display of your CZW-250.



1. To start the adaptation, press and hold the **+** button and the **-** button on your CZW-250 simultaneously for approx. 3 seconds.
  - ➔ When adapting, your CZW-250 adapts to the stroke of your lower valve section. For this purpose, the valve is opened and closed several times to detect the respective end points. The process may take a moment. After successful adaptation, your CZW-250 switches to normal operation.
2. Tap the **Next** button in the app.

If a problem occurs with your CZW-250, a new adaptation is necessary. Carry out the following steps for this purpose:

1. Open the battery compartment cover.
2. Press the **reset button**.
  - ➔ A timer in the display runs up to **10**. Then **PA** is displayed and the WiFi symbol flashes.
3. Alternatively, remove the batteries and wait for 10 seconds. Then reinsert the batteries.
4. Close the battery compartment cover.
  - ➔ Your CZW-250 restarts and is then in the adaptation mode. **Ad** appears in the display.



### INFORMATION

Your CZW-250 must be re-adapted after each battery change.

## 5.10 NAMING AND ASSIGNING CZW-250

After successful installation and adaptation, you can give your CZW-250 a name in the app and assign your CZW-250 to a room.

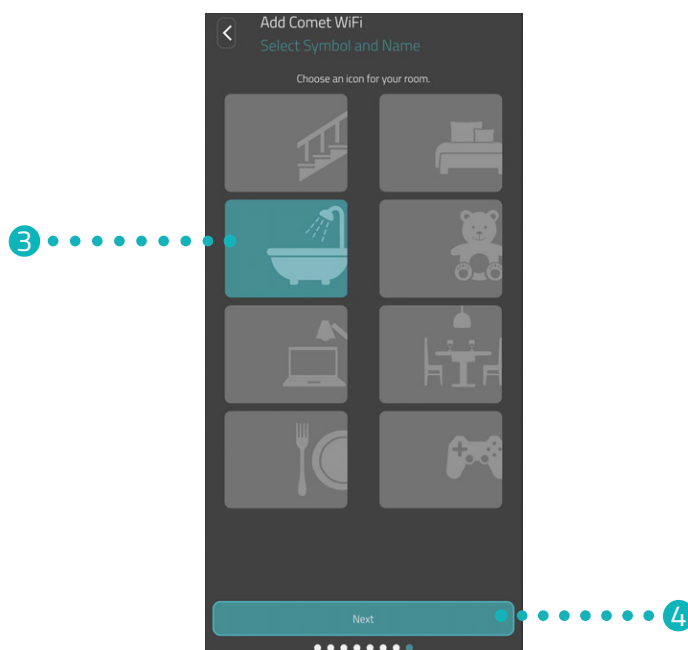


1. Enter a designation for your CZW-250 in the input field.
2. Tap the **Create new room** button to create a room and assign your CZW-250 to this room.



### INFORMATION

When using several CZW-250, you can also assign the devices to existing rooms. It is not necessary to create a separate room for each CZW-250.



3. Select a symbol and a name for the room.
4. Tap the **Next** button.
5. Tap the **Save** button.
  - ➔ You have successfully named your CZW-250 and assigned it to a room.
  - ➔ Your CZW-250 is now fully set up and ready to use.




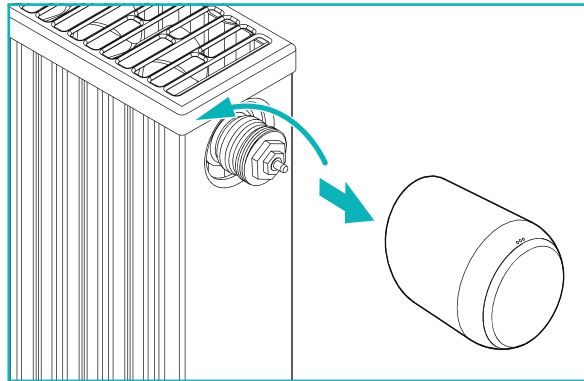
#### INFORMATION

If problems occur during the saving process, your smartphone may not be connected to the correct WiFi. In the WiFi settings, make sure that your smartphone is connected to the correct WiFi (2.4 GHz). Then repeat the saving process.



## 6 REMOVING CZW-250

The prerequisite for removing your CZW-250 is that your CZW-250 is in the adaptation mode, see  Section **5.9 Adapting CZW-250 on Page 22**.



### CAUTION!:

#### Burns caused by hot radiator valve!

Touching can cause burns to the hand.

Avoid contact of battery acid with skin, eyes and mucous membranes.

→ Allow the radiator to cool down before installing, removing or troubleshooting your CZW-250!

1. Turn the union nut anti-clockwise.
2. Pull your CZW-250 off the valve (see illustration).  
→ You have removed your CZW-250.

# 7 CONFIGURING APP

After successful installation and initial start-up of your CZW-250, you can make further settings in the **Eurotronic Smart Living 2.0** app.

From the start screen (My Home) you have access to the menu bar and all the rooms that have been set up.



- ① Back button
- ② Selected room
- ③ Room menu
- ④ Current display (e.g. room, device, etc.)
- ⑤ Menu bar
- ⑥ Selection of rooms

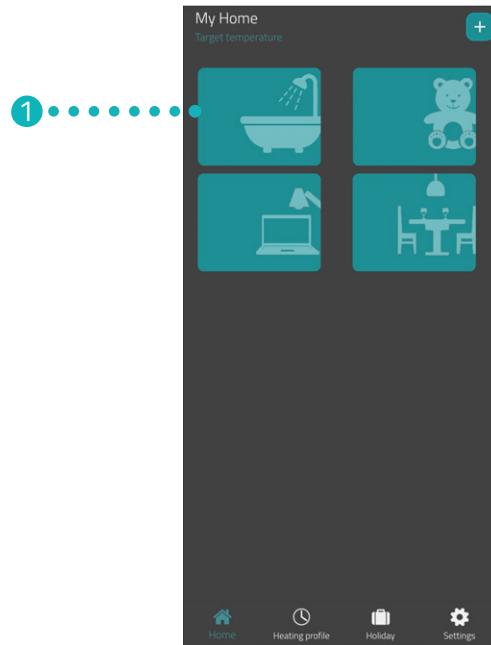
Via the selection of rooms, you have access to the associated CZW-250 devices.

The following functions are available in the menu bar:

- Home screen (My Home)
- Heating plans, see Section **7.3 Heating profile on Page 30**
- Holiday, see Section **7.4 Holiday on Page 34**
- Settings, see Section **7.5 Customer service on Page 38**

## 7.1 SETTING TEMPERATURE IN A ROOM


You can set the temperature for each room individually. After selecting a room, set the desired temperature for the room or radiator.



1. Tap on the desired room (e.g. bathroom).  
→ The current room temperature and the set temperature are displayed.


2. Make additional settings:

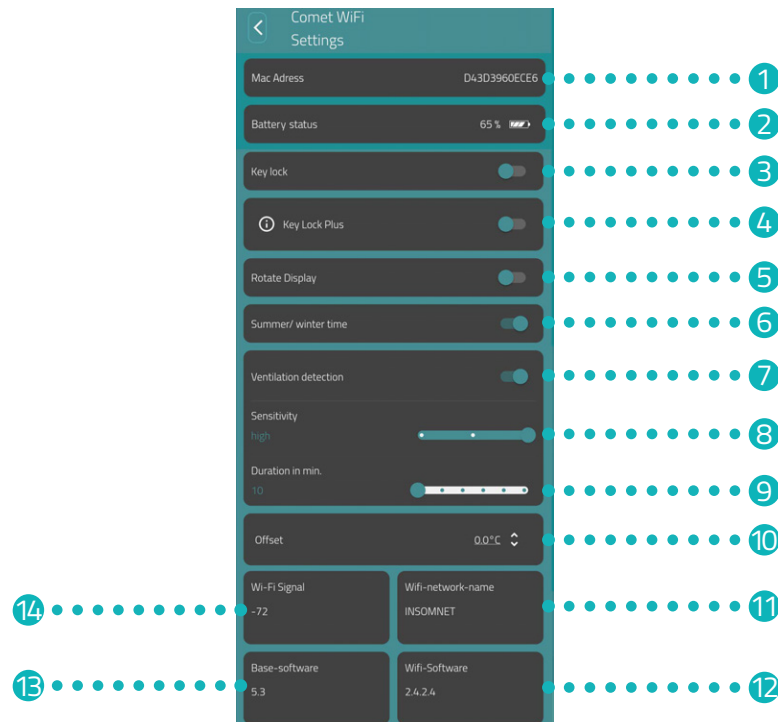


- 1 The menu displays all CZW-250s that are assigned to the current room. You can make additional settings for the selected CZW-250, see  Section **7.2 Device settings on Page 29**.
- 2 The **Current temperature** area displays the current temperature in the room.
- 3 Adjust the temperature individually with the setting wheel in the **Set Temperature** area. The set temperature is transmitted to your CZW-250 as soon as you are on the same WiFi.

- 4 **Heating profile off:**  
The stored heating profile is not active.  
**Heating profile on:**  
The stored heating profile is active. However, you can still make changes to the temperature. The temperature set manually is maintained until the next switching point. Your CZW-250 then switches to the set heating programme.

## 7.2 DEVICE SETTINGS


In the menu of a room (see  Section **7.1 Setting temperature in a room on Page 27.**) you have access to all CZW-250s assigned to the room. You have access to additional settings and information about the selected CZW-250:



- 1 Mac address.
- 2 Current battery level
- 3 Activate/deactivate Key lock
- 4 Activate/deactivate Key Lock Plus
- 5 Rotate display 180°
- 6 Summer/winter time is changed automatically (activated at factory)
- 7 Activate/deactivate ventilation detection.
- 8 Sensitivity of ventilation detection
- 9 Duration for which the heating valve is closed when ventilation detection is activated
- 10 Carry out temperature adjustment
- 11 Currently connected WiFi network.
- 12 Version of the current WiFi software.
- 13 Version of current controller software.
- 14 Signal strength of connected WiFi.

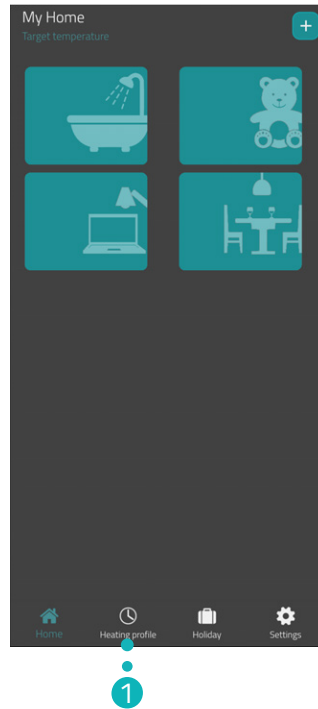


### INFORMATION

Not all the functions shown are activated by default. For additional information on the functions listed above, see  Section **8.2 Additional functions on Page 41.**

## 7.3 HEATING PROFILE

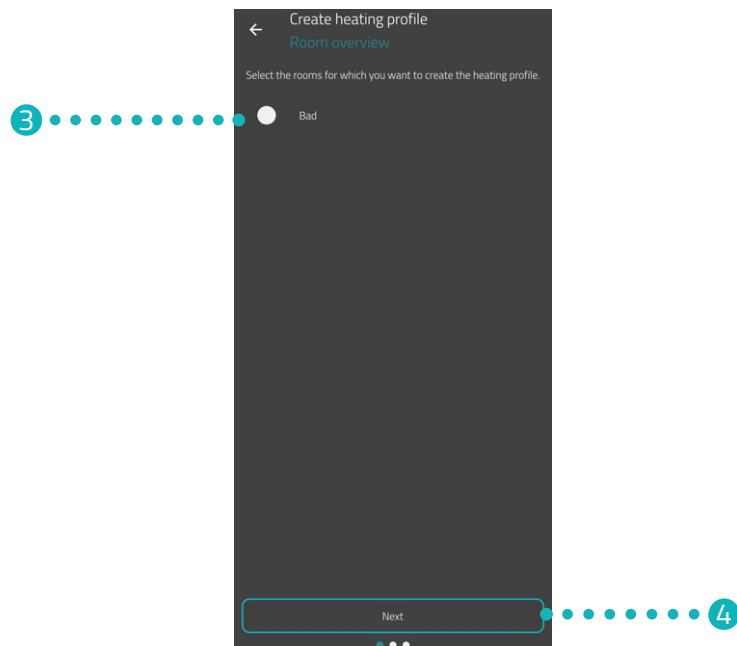
In the **Heating profile** menu, you set heating blocks with heating times for different days. You can set the temperature individually for each heating time.



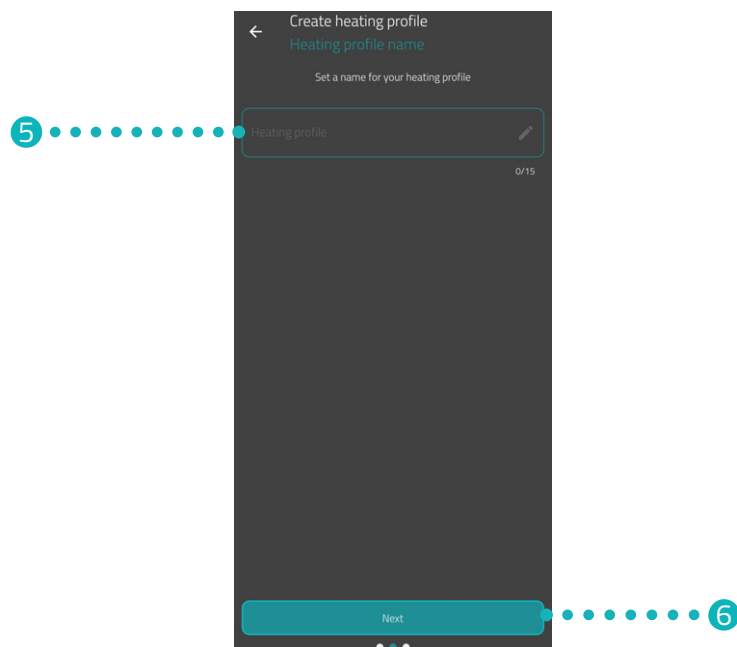
1. Tap the **Heating profile** button.  
→ The overview of the heating profiles is displayed.



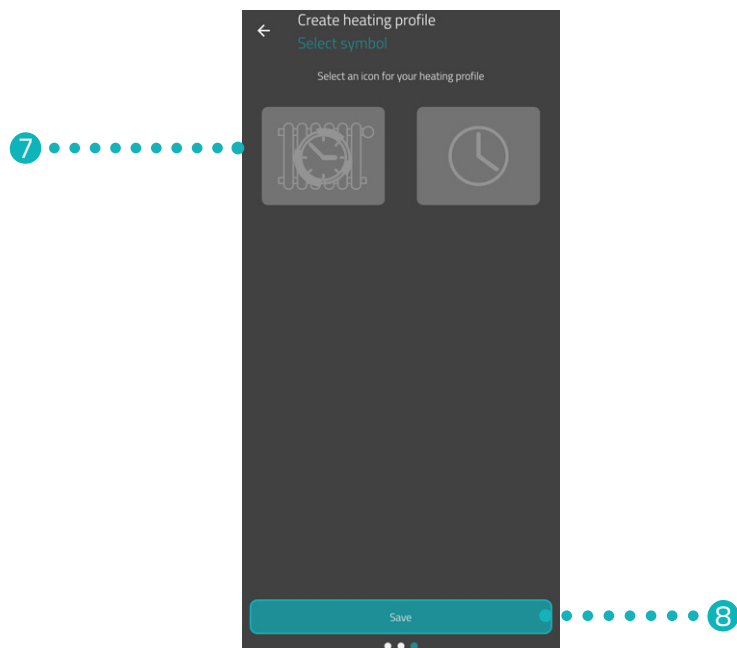
2. Tap the **+** button to create a new heating profile.  
→ The overview of the available rooms is displayed.



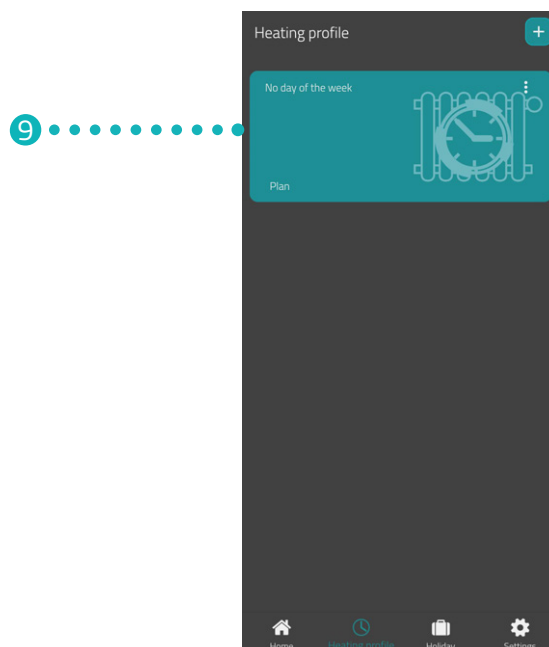
3. Tap on one or more rooms for which the heating profile is to apply.
4. Tap the **Next** button.



5. Enter a designation for the heating profile in the input field.
6. Tap the **Next** button.

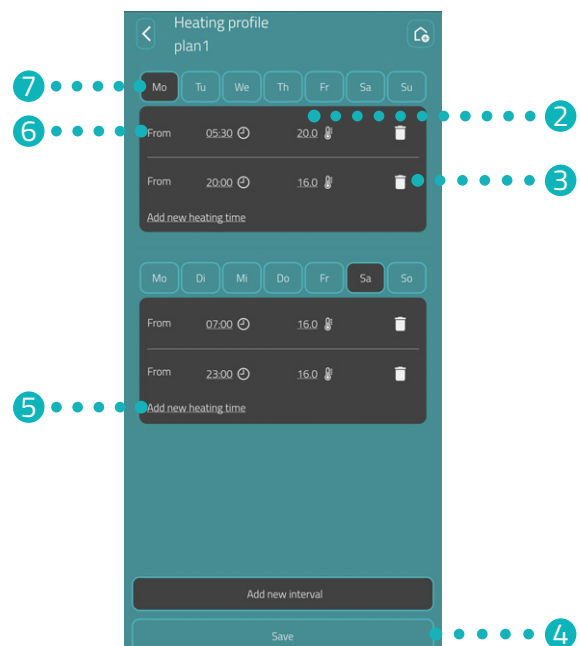
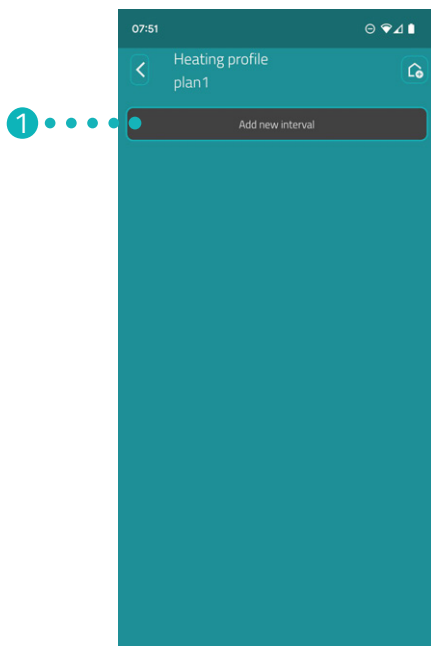


7. Select a symbol for the heating profile.
8. Tap the **Save** button.
  - ➔ You have successfully created the heating profile.



9. Tap the **heating profile** to set the heating times:





- 1 Add a new heating block.
- 2 Set the target temperature for the selected switching point.
- 3 Delete the selected heating time.
- 4 Save the settings.
- 5 Add a new heating time for the heating block.
- 6 Set the starting time of the selected heating time.
- 7 Select the period of the current heating block.

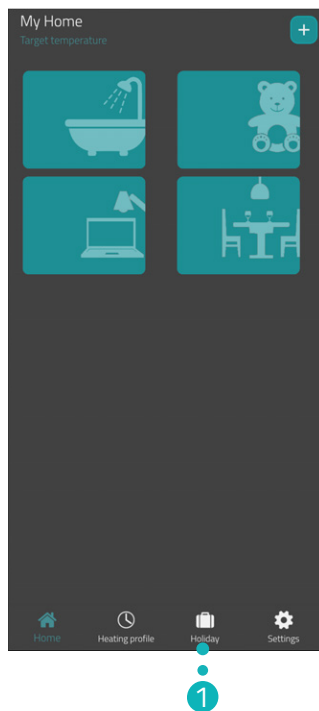


### INFORMATION

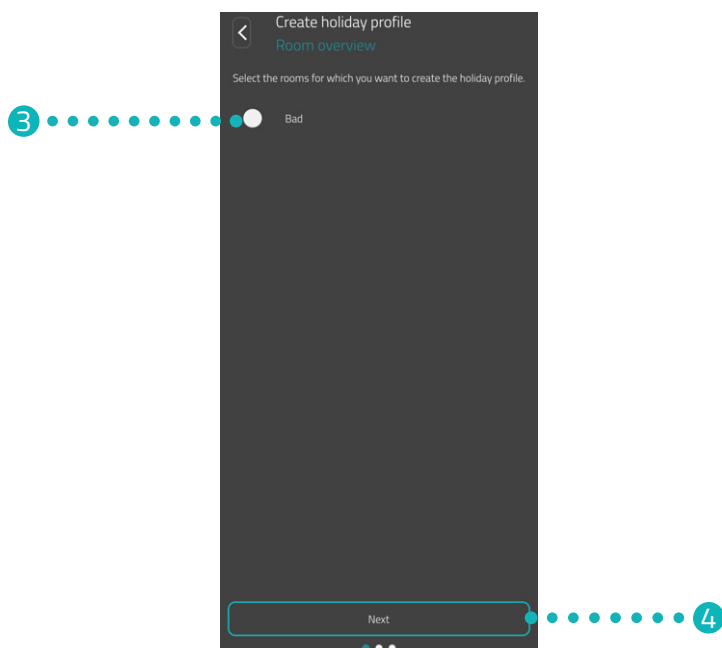
Note that the settings are only transferred to the corresponding CZW-250s and are consequently activated by tapping the **Save** button.

## 7.4 HOLIDAY

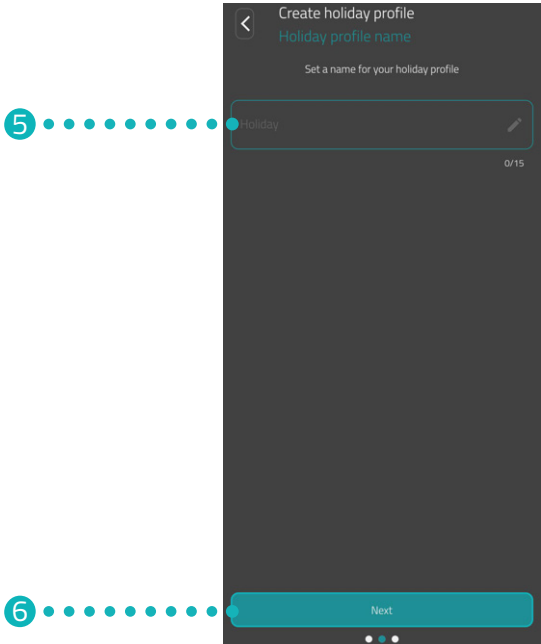
Set a holiday profile for a period of absence in the **Holiday** menu. You can set the temperature individually for each switching point.



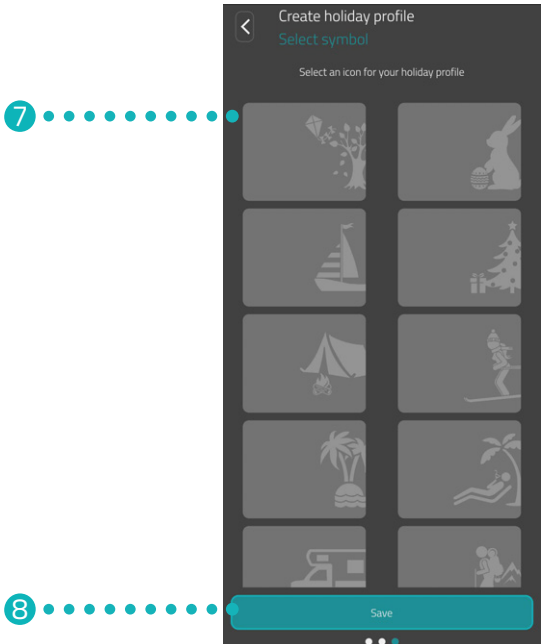
1. Tap the **Holiday** button.
2. Tap the **+** button to create a new holiday profile.  
→ The overview of the available rooms is displayed.



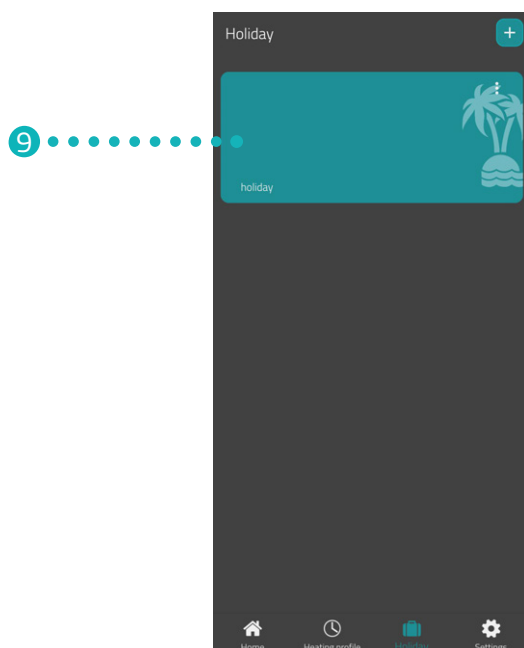
3. Tap on one or more rooms for which the holiday profile is to apply.
4. Tap the **Next** button.



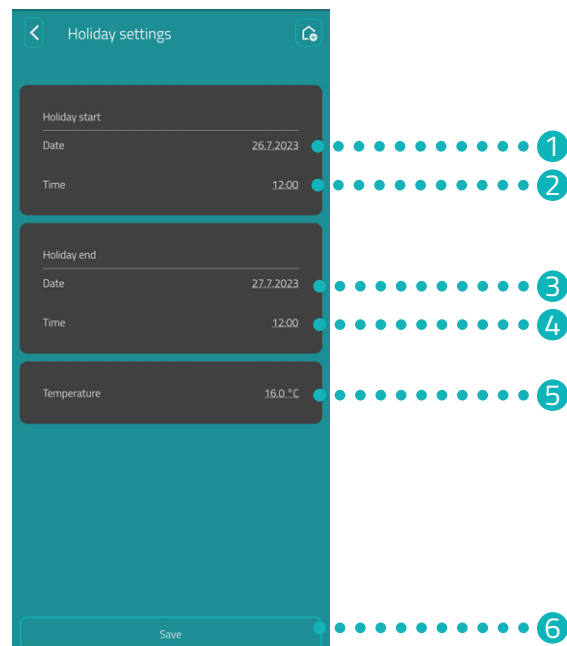
- 5. Enter a designation for the holiday profile in the input field.
- 6. Tap the **Next** button.



- 7. Select a symbol for the holiday profile.
- 8. Tap the **Save** button.



9. Tap **Holiday** to set the heating times:  
→ You have created the heating profile for a period of absence.



- 1 Set the **Date** for the start of the period of absence.
- 2 Set the **Time** for the beginning of the period of absence.
- 3 Set the **Date** for the end of the period of absence.
- 4 Set the **Time** for the end of the period of absence.
- 5 Set the **Temperature** for the period of absence.
- 6 Save the settings.

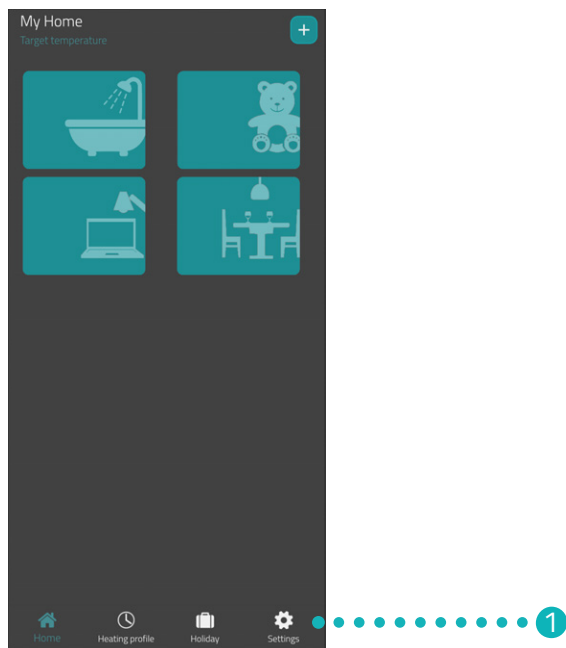


### INFORMATION

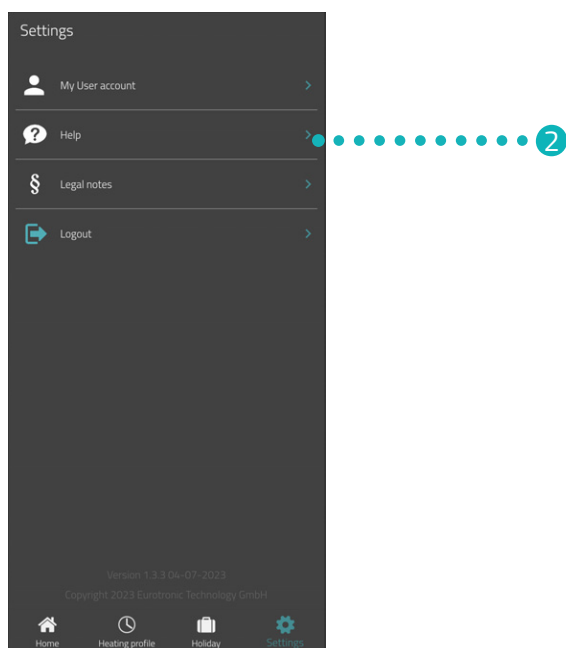
Note that the settings are only transferred to the corresponding CZW-250s and are consequently activated by tapping the **Save** button.

## 7.5 CUSTOMER SERVICE

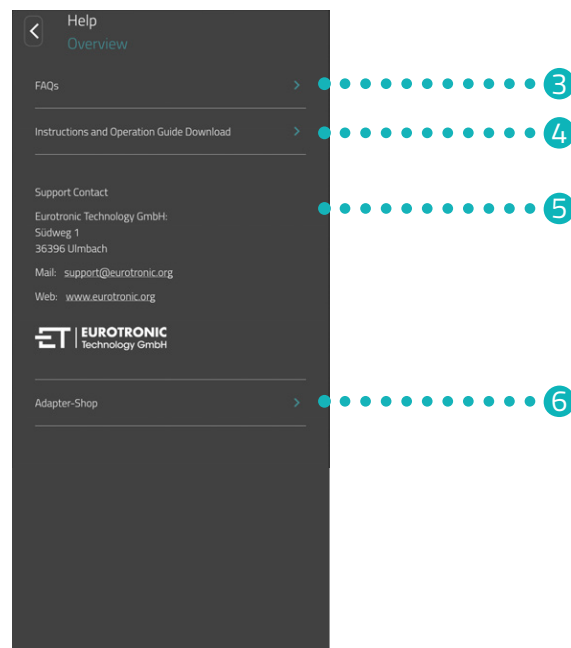
The following section describes the Customer Service area in the **Eurotronic Smart Living 2.0** app.





1. Tap the **Settings** button on the My Home screen.



2. Tap the **Help** button.



3. Tap the **FAQs** button to open the "Frequently Asked Questions" website.
4. Tap the **Instructions and Operating Guide Download** button to download the operating instructions for the **Eurotronic Smart Living 2.0** app.
5. This area displays the contact information (see  Section **11.2 Support and contact on Page 46**).
6. Tap the **Adapter Shop** button to open the website with more adapters (see  section **5.8 Adapter overview on Page 20**).

## 8 OPERATING MODES & FUNCTIONS

The following section describes the operating modes and other functions of your CZW-250.

### 8.1 BASIC OPERATING MODES


#### HEATING PROFILE (ACTIVATED)

If you activate the heating profile in the **Eurotronic Smart Living 2.0** app, your CZW-250 regulates the temperature according to the set heating profile. You can still make changes to the temperature (in the **Eurotronic Smart Living 2.0** app or on your CZW-250) at any time. The manually set temperature remains unchanged until the next heating time. Your CZW-250 then switches back to the set heating profile.

#### HEATING PROFILE (DEACTIVATED)


If you deactivate the heating profile in the **Eurotronic Smart Living 2.0** app, your CZW-250 adjusts to the manually set temperature. The temperatures are not changed at the set heating time.

#### HOLIDAY

You can set a freely selectable temperature for the time you are absent. After the set time has elapsed, the heating profile set by you runs again automatically. To set the holiday, select the **Holiday** menu item in the **Eurotronic Smart Living 2.0** app, see  Section **7.4 Holiday on Page 34**.

If you press a button on the CZW-250 during an active holiday profile, **Ho** appears in the display. When a button is pressed again, the set temperature is shown on the display, thereby deactivating the holiday profile.

#### HEATING PROFILE

You can easily and conveniently set your heating profile in the **Eurotronic Smart Living 2.0** app under the menu item **Heating profile**, see  Section **7.3 Heating profile on Page 30**.


#### MANUAL OPERATION

It is possible to change the temperature manually using the touch buttons on your CZW-250. If a heating profile is activated, this manually set temperature remains set until the next heating time. Your CZW-250 then switches back to the set heating profile.




## 8.2 ADDITIONAL FUNCTIONS

### VENTILATION DETECTION


If the temperature drops sharply due to an open window, your CZW-250 automatically closes the heating valve to save energy. You can activate and deactivate the **window-open detection** function in the **Eurotronic Smart Living 2.0** app. Adjust the settings if necessary, see  Section **7.2 Device settings on Page 29**.




#### INFORMATION

Depending on the installation situation of your CZW-250 and the set sensitivity, the open window may not be detected. A tilted window may not be detected if the temperature drop is not sufficient. Adjust the settings if necessary, see  Section **7.2 Device settings on Page 29**.


### OFFSET (TEMPERATURE ADJUSTMENT)

If the temperature felt differs from the set temperature, you can perform a temperature adjustment. Adjust the settings if necessary, see  Section **7.2 Device settings on Page 29**.

### ALIGN DISPLAY

Depending on the positioning of your radiator valve, it may be necessary to turn the display of your CZW-250 by 180°. Adjust the settings if necessary, see  Section **7.2 Device settings on Page 29**.

### KEY LOCK / KEY LOCK PLUS

Activate the key lock in the **Eurotronic Smart Living** app to lock your CZW-250 for other people, see  Section **7.2 Device settings on Page 29**.

Alternatively, activate the key lock directly on your CZW-250:

1. Press and hold the **+ button** and the **- button** simultaneously for a few seconds. A corresponding animation is shown on the display.
2. To deactivate, press and hold the **+ button** and the **- button** simultaneously for a few seconds. Wait until the animation on the display disappears.



#### INFORMATION

The Key Lock Plus can only be deactivated using the app and not using the buttons on your CZW-250.

### FROST AND LIME PROTECTION

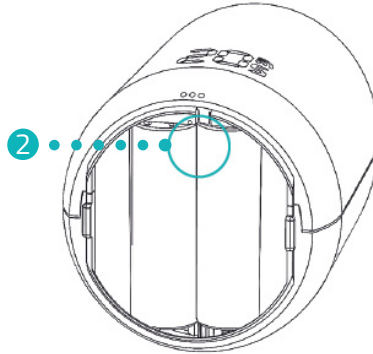
The frost protection and limescale protection functions are automatically active.


**Frost protection:** If the temperature drops below 8° C, the display shows --. In this case, your CZW-250 opens the valve until the temperature rises above 8° C again. This prevents the radiators from freezing.

**Lime protection:** To prevent the radiator valves from calcifying, your CZW-250 performs a limescale protection run every Friday at 11:00 a.m.

## 8.3 RESETTING TO FACTORY SETTINGS

If problems occur, it may be helpful to reset your CZW-250 to the factory settings.



1. Open the battery compartment cover.
2. Press and hold the **Reset button** in the battery compartment for 10 seconds.
  - A timer in the display runs up to **10**. Then **PA** is displayed and the WiFi symbol flashes.
  - You have reset your CZW-250 to the factory settings. Perform the initial setup again, see  Section **5.3 Adding new device on Page 12**.




### INFORMATION

For CZW-250 devices with software version 4.9, only press the **reset button** briefly to reset your CZW-250 to the factory settings.

# 9 TROUBLESHOOTING

Problems can also occur with your CZW-250. The following information will help you eliminate errors.

Problem	Cause	Remedy
The app does not show WiFi in the "My WiFi network" area.	<ul style="list-style-type: none"> <li>Your router does not operate in the 2.4 GHz frequency range.</li> <li>The location detection (GPS) of your smartphone is deactivated or the app does not have access to it.</li> </ul>	<ul style="list-style-type: none"> <li>Check whether your WiFi operates in the 2.4 GHz frequency range, as your CZW-250 can only be integrated into a 2.4 GHz WiFi network. For more information, see the operating instructions for your router.</li> <li>Activate the location detection (GPS) of your smartphone.</li> <li>The app requires authorisation to access your location (GPS). Adjust this setting in your smartphone if necessary. For additional information, see the operating instructions for your smartphone.</li> </ul>
C1	<ul style="list-style-type: none"> <li>You have not entered the WiFi password correctly in the app.</li> <li>The WiFi signal strength is too weak.</li> </ul>	<ul style="list-style-type: none"> <li>Delete your CZW-250 from the app and add it again, see  Section <b>5.3 Adding new device on Page 12</b>.</li> <li>Improve the WiFi signal strength of your home network by taking appropriate measures.</li> </ul>
C2	<ul style="list-style-type: none"> <li>The WiFi password has been changed.</li> <li>Interruption of the existing wireless connection.</li> <li>Set-up WiFi connection was temporarily interrupted (e.g. power failure, network cable)</li> </ul>	<ul style="list-style-type: none"> <li>Your CZW-250 must be reconnected to the WiFi network (by entering the new WiFi password).</li> <li>Improve the WiFi signal strength of your home network by taking appropriate measures.</li> <li>For example, check your power supply and network cable.</li> </ul>
C3	WiFi connection without Internet access.	Check your Internet connection.
Batteries need to be changed frequently.	Check your WiFi signal strength.	Check your Internet connection.
<b>E1-E3</b>	<b>Pressing any button clears the error indication in the display and the adaptation restarts.</b>	
E1	No adaptation possible. Your CZW-250 is not installed on the radiator.	Install your CZW-250 correctly on the radiator.
E2	Valve stroke too short or battery power too low.	Open and close the valve plunger by hand several times or insert new batteries.
E3	No valve movement possible.	Press any button to acknowledge. Make sure that the valve plunger can move freely.
bt	The batteries are weak.	Change the batteries.

## 10 CLEANING AND STORAGE

Switch off your CZW-250 and remove the batteries if you will not be using your CZW-250 for a longer period of time. Store your CZW-250 in a dry, dust-free place.



### IMPORTANT!

#### Material damage possible!

Improper handling of your CZW-250 may result in damage.

- ➔ Do not immerse your CZW-250 in water or other liquids.
- ➔ Do not use aggressive cleaning agents, brushes with metal or nylon bristles or sharp or metallic cleaning objects such as knives, hard spatulas, etc. They can damage the surfaces.
- ➔ Clean your CZW-250 with a soft, dry, lint-free cloth.
- ➔ Do not use cleaning agents or solvents.

# 11 APPENDIX

The following section contains information on technical data, customer service and other legal information.

## 11.1 TECHNICAL DATA

Designation	CZW-250
Supply voltage	2× AA/LR6 batteries
Threaded connection	M30 × 1.5 mm
Method of operation	Type 1
Dimensions	62 × 68 × 83 mm
Weight	161 g (incl. batteries)
Protection class	IP 20
Degree of contamination	2
Measuring accuracy	±1 °C
WiFi frequency	2,412 MHz to approx. 2,472 MHz
Maximum transmission power	IEEE 802.11b: 18.29 dBm IEEE 802.11g: 19.30 dBm IEEE 802.11n: 18.41 dBm

Subject to technical changes at any time. Compatibility information provided without guarantee.

## 11.2 SUPPORT AND CONTACT

You can contact us for technical support.

We look forward to assisting you with your enquiry:

Phone: +49-(0)-6667-91847-0

E-mail: [support@eurotronic.org](mailto:support@eurotronic.org)

Customer service: **EUROtronic Technology GmbH**  
Südweg 1  
36396 Steinau-Ulmbach  
Germany

## 11.3 DISPOSAL



### INFORMATION

Please inform yourself about the options for returning old devices and used batteries free of charge at your retailer.

From the date of implementation of the European Directives 2012/19/EU into national law, the following applies:



Electrical and electronic devices as well as batteries may not be disposed of with household waste. The consumer is legally obliged to return electrical and electronic devices as well as batteries at the end of their service life to the public collection points set up for this purpose or to the point of sale. Details are regulated by the respective national laws.



**Non-rechargeable and rechargeable batteries may not be disposed of in household waste!** As a consumer, you are legally obliged to hand in all non-rechargeable and rechargeable batteries, regardless of whether they contain harmful substances\* or not, to a collection point in your municipality/district or to a retailer so that they can be disposed of in an environmentally friendly manner.

\*Labelled with: Cd = Cadmium, Hg = Mercury, Pb = Lead



### DISPOSAL OF PACKAGING:

Dispose of the packaging according to type. Dispose of cardboard and carton at waste paper collection points and foil at recyclables collection points. The symbols on your CZW-250, the operating instructions or the packaging refer to these regulations. With recycling, material recovery or other forms of recovery of used devices/batteries, you make an important contribution to the protection of our environment.

## 11.4 PERSONAL DATA

1. Delete all personal data from your user account of the **Eurotronic Smart Living 2.0** app before disposing of your CZW-250.

## 11.5 SIMPLIFIED DECLARATION OF CONFORMITY



EUROtronic Technology GmbH hereby declares that your CZW-250 complies with all applicable Community provisions of the European Economic Area Directive 2014/53/EU. The entire text of the EU Declaration of Conformity is available at the following Internet address:

<https://eurotronic.org/service/downloads>

## 11.6 WARRANTY NOTICE

The warranty period is 24 months and begins on the day of purchase. Keep your receipt as proof of purchase. During the warranty period, defective energy-saving controllers can be sent to the service address with sufficient postage. To do this, contact our Customer Service before returning the item. You will then receive a new or repaired device in return free of charge. Repair or replacement of the device does not begin a new warranty period. Note that we only guarantee the functions of the device, not the functionality between the interaction of the device and the valve base.

The application-related technical data are only guaranteed together with the valves Heimeier, Junkers Landys+Gyr, MNG, Honeywell Braukmann thread dimension (M30x1.5), Oventrop (M30x1.5) Danfoss RA, RAV and RAVL. The unit combinations are specified on our website ([www.eurotronic.org](http://www.eurotronic.org)). When operating your CZW-250 with third-party valves/adapters that are not listed, the functionality must be ensured by the user. EUROtronic does not provide warranty service in these cases.

After the warranty period has expired, you also have the option of sending the defective unit to the address provided, with sufficient postage, for the purpose of repair. Repairs required after the expiration of the warranty period are subject to a charge. Your statutory rights are not limited by this warranty.

## 11.7 MANUFACTURER

**EUROtronic Technology GmbH**  
Südweg 1  
36396 Steinau-Ulmbach  
Germany







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