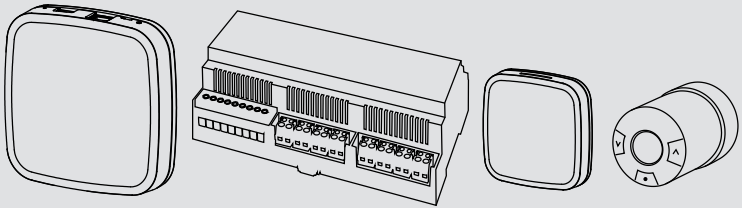
OPERATION AND INSTALLATION

Individual room control

» EASYTRON Connect



STIEBEL ELTRON

CONTENTS

OPERATION

1. General information

The chapter "Operation" is intended for appliance users and qualified contractors.

The chapter "Installation" is intended for qualified contractors.

Note
Read these instructions carefully before using the appliance and retain them for future reference.
Pass on the instructions to a new user if required.

1.1 Safety instructions

1.1.1 Structure of safety instructions

KEYWORD Type of risk
Here, possible consequences are listed that may result from failure to observe the safety instructions.
▶ Steps to prevent the risk are listed.

1.1.2 Symbols, type of risk

Symbol	Type of risk
	Injury
	Electrocution

1.1.3 Keywords

KEYWORD	Meaning
DANGER	Failure to observe this information will result in serious injury or death.
WARNING	Failure to observe this information may result in serious injury or death.
CAUTION	Failure to observe this information may result in non-serious or minor injury.

1.2 Other symbols in this documentation

Note
General information is identified by the adjacent symbol.
▶ Read these texts carefully.

Symbol	Meaning
	Material losses (appliance damage, consequential losses and environmental pollution)
	Appliance disposal

▶ This symbol indicates that you have to do something. The action you need to take is described step by step.

1.3 Units of measurement

Note
All measurements are given in mm unless stated otherwise.

2. Safety

2.1 Intended use

The appliance is intended for domestic use. It can be used safely by untrained persons. The appliance can also be used in non-domestic environments, e.g. in small businesses, as long as it is used in the same way.

Any other use beyond that described shall be deemed inappropriate. Observation of these instructions and of the instructions

for any accessories used is also part of the correct use of this appliance.

2.2 General safety instructions

WARNING Injury
The appliance may be used by children over 8 years of age and persons with reduced physical, sensory or mental capabilities or a lack of experience and expertise, provided that they are supervised or they have been instructed on how to use the appliance safely and have understood the potential risks. Children must never play with the appliance. Children must never clean the appliance or perform user maintenance unless they are supervised.

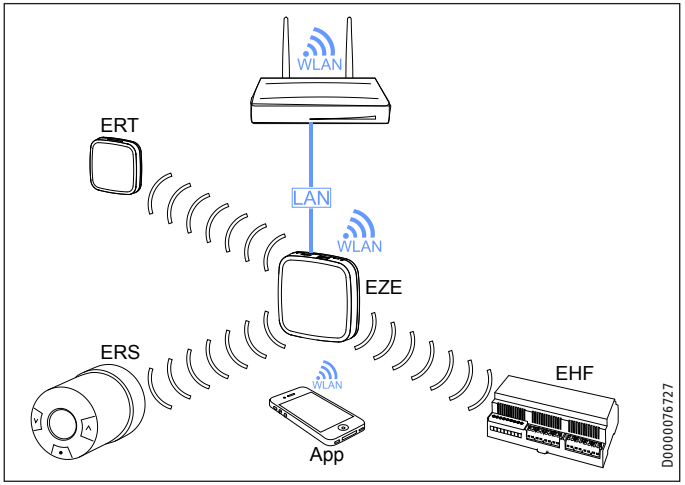
2.3 Test symbols

See type plate on the appliance.

3. System description

Hinweis
▶ To operate the system, use the latest version of Google Chrome, Safari or Mozilla Firefox.

Note
The term "heat pump" includes both heat pumps and integral ventilation units.



System description

The EASYTRON Connect system is designed for individual room control of heating systems in buildings. The system can be connected to a heat pump via ISG web or operated independently. Connecting the system to a heat pump enables demand-dependent individual room control. Operation can be via the EASYTRON Connect app.

If the system has an integral heat pump, the following functions are possible:

- The system can optimise heat pump heating curves for the connected heating circuits.
- The system can open all heating circuits for heat pump defrost.
- The system enables the identification of rooms to be cooled by the heat pump.

The system can be used for heating systems with wall mounted radiators or underfloor heating. If the heating system has an integral DHW cylinder, the system can influence DHW heating.

The system can control 24 rooms. In each room, max. four actuators for radiators or channels for underfloor heating can be controlled.

In conjunction with a control unit for underfloor heating, one room temperature sensor is required per room.

The following components can be integrated into the system:

EASYTRON Connect base station EZE

The device is the central control unit and communication interface for the system, which receives and transmits information from and to other wireless components. The device is connected to the wireless components via radio (Z-Wave).

Communication with the heat pump is via ISG web (Internet Service Gateway).

EASYTRON Connect underfloor heating controller EHF

The device controls the underfloor heating system. The device can be used to control eight channels in each case with up to three thermoelectric actuators (EFS, not part of standard delivery).

The device contains an integral repeater to improve the wireless range.

EASYTRON Connect room temperature sensor ERT

The device captures the actual room temperature in rooms with underfloor heating.

EASYTRON Connect radiator actuator ERS

Radiators can be controlled wirelessly with the device.

Actuators fit all commercially available valves with M30 x 1.5 mm connection or RA adaptor. Suitable adaptors are available for heating valves with RAV and RAVL connections. Other adaptors are available from specialist trade shops.

EASYTRON Connect repeater ERE

This device improves the wireless range.

EASYTRON installation stick EIW (WLAN) and EASYTRON Connect installation kit EIL (LAN)

These products are used to help set up the system. Dial-up to the client network is not required.

EASYTRON Connect app

The app enables the system to be operated via mobile devices.

Server connection

When the server connection is activated and the system is connected to the internet, the system can be operated when away from home via the EASYTRON Connect app.

Z-Wave wireless system

The Z-Wave wireless system is a wireless communication standard especially for use in the smart home sector. Z-Wave uses two-way communication with return acknowledgement. Only acknowledged telegrams are considered to have been sent successfully. In the case of communication faults, the send process is repeated up to three times.

Any network operated device can forward the telegrams to other devices on its own network. This creates an intermeshed network, which is controlled by the base station. The base station refreshes the routes when the network changes.

4. EASYTRON Connect app

The system can be operated via an app on mobile devices.

- ▶ Install the app on your mobile device.
- ▶ Ensure that your mobile device is on the same network as the system.

4.1 User roles

The app can be used for user administration of several users with different user roles.

User

Users have limited access rights to the setting options on the system. Users can control rooms for which they have authorisation.

Admin

Admin has access to all system setting options. Admin can manage all rooms. In the "Pro" section, Admin has limited access rights.

Contractor

Aside from the same rights as Admin, the Expert also has full access to the setting options in the "Pro" section.

4.2 Operating modes

The heat pump is operated as standard with the system in PROGRAMMED OPERATION (AUTOMATIC OPERATION).

You can use the app to influence the heat pump operating mode if the selected action changes the operating mode.

Note
If the heat pump is in EMERGENCY OPERATION or MANUAL MODE, the app cannot be used to influence the operating mode. These operating modes are displayed in the app as faults for operation of the base station.

Standby / STANDBY MODE

You can switch the rooms individually to standby. Heating operation is no longer carried out.

If all rooms are switched to standby and no frost protection is required for the rooms, the heat pump switches to STANDBY MODE.

Note
In STANDBY MODE, DHW heating is not available.
The heat pump's frost protection function is activated.

If the frost protection function is activated for a room, the heat pump switches to PROGRAMMED OPERATION (AUTOMATIC OPERATION). The heat pump heats the room before the room cools down.

ECO action

If you are leaving the house for a specific length of time, you can use the ECO action to lower the set room value to the selected ECO temperature (night temperature). Once the selected time has expired, demand returns to the comfort or ECO temperature (day or night temperature) depending on the switching time.

Holiday action

If you are leaving the house for an extended period, you can use the Holiday action to lower the set room value to the frost protection temperature.

If the Holiday action is selected for all rooms, the heat pump switches to STANDBY MODE.

Note
In STANDBY MODE, DHW heating is not available.
The heat pump's frost protection function is activated.

After the extended period away from home, standby mode is switched off again and the heat pump switches to PROGRAMMED OPERATION (AUTOMATIC OPERATION).

Party action

Use the Party action to extend the period during which the heat pump provides room heating to comfort temperature (day temperature). Normal switching times are suspended for the selected

period. Once the selected time has expired, demand returns to the comfort or ECO temperature (day or night temperature) depending on the switching time.

Shower action

This action can be used to heat the DHW and defined rooms to a comfort temperature (day temperature) for a specific period.

4.3 Retrofitting wireless components

WARNING Electrocution
▶ **Devices should be installed by a qualified contractor.**

You can install additional components on the app or a computer via the base station.

Retrofitting via the app

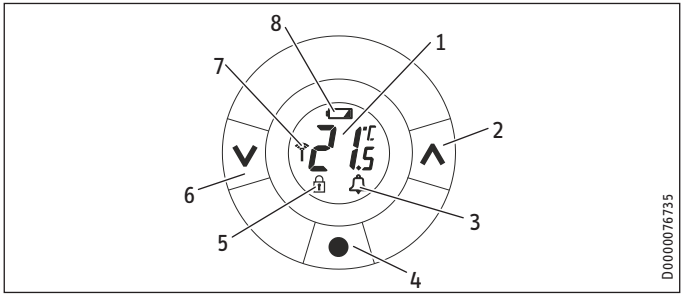
- ▶ Log into the app as "Admin" or "Expert".
- ▶ Go to the "Settings" menu.
- ▶ Go to the base station menu.
- ▶ Log in with credentials.
- ▶ Go to the "Wireless components" menu.
- ▶ Follow the app instructions.

Retrofitting via the base station

- ▶ Observe chapter "Installation / Connecting wireless components".

5. Operation

5.1 EASYTRON Connect radiator actuator ERS



1 Set temperature
2 "Up" button
3 Alarm
4 Learn button
5 Lock
6 "Down" button
7 Wireless connection
8 Battery symbol

5.1.1 Setting the temperature

- ▶ Press the "Up" or "Down" button to change the room temperature.

5.1.2 Matching the radiator size

The device can be used to compensate for undersized or oversized radiators in a room.

The device is set to P2 as standard.

- ▶ Press and hold the learn button on the device until the display shows an "M".
- ▶ Keep pressing the "Down" button until the display shows "Pb".
- ▶ Press the learn button to confirm.
- ▶ Select the required adjustment using the "Up" or "Down" button.

Adjustment	Radiator size
P1	For oversized radiators.
P2	For correctly sized radiators. (Factory setting)
P3	For undersized radiators.

- ▶ Press the learn button to confirm.

5.1.3 "Window open" detection

Note
If the device is covered by curtains or furniture, "Window open" detection may be impaired.

The device has "Window open" detection. If the room temperature drops sharply over a period (e.g. when venting), the radiator valve closes. The radiator valve remains closed for 30 minutes. Then the device resumes control according to the settings. "Window open" detection remains locked for 45 minutes.

5.1.4 Anti-lock function

To prevent a radiator valve lock (e.g. due to deposits), the device opens and closes the radiator valve automatically. Then the device resumes control according to the settings.

5.1.5 Activating a lock

If you want to prevent local operation at the device, you can activate a lock in the "Pro" section.

- ▶ Go to the "Settings" / "System" / "Pro" app menu.
- ▶ Here, select whether local operation should be activated or deactivated for all paired devices in the system. The setting is activated at the factory.

In the room settings, you can activate or deactivate local operation of the devices for each room individually. The setting is activated at the factory.

6. Troubleshooting

6.1 Status display for EASYTRON Connect base station EZE

LED	Meaning	Remedy
Steady white light	The power supply is switched on.	
Steady white light (longer than two minutes after switching on)	Boot fault	Isolate the base station from the power supply. Wait for one minute. Reconnect the base station to the power supply.
Steady yellow light	Operating system is starting up.	
Flashing green light	Connecting to the network and internet.	
Illuminates green	Connected to the network and internet.	
Steady yellow light	Connected to the network. Could not connect to the base station.	Check the network configuration.
Steady red light	The network connection could not be established.	LAN: check that a network cable was connected. WLAN: check that the credentials are correct.
Flashes red	System fault	Perform a software update via the internet or a USB stick. If the fault persists, notify your qualified contractor.

6.2 Status display for the EASYTRON Connect radiator actuator ERS

Display indication	Meaning	Remedy
E1 E2 E3 E4	Actuator fault	Notify your qualified contractor. Replace the actuator.
E5	Cannot connect to the base station.	If the message remains for longer than five hours, remove the batteries. Re-insert the batteries. Perform a connection test. If the message remains, unpair the actuator from the base station. Carry out an actuator reset. Re-pair the actuator with the base station.

INSTALLATION

7. Safety

Only a qualified contractor should carry out installation, commissioning, maintenance and repair of the appliance.

7.1 General safety instructions

We guarantee trouble-free function and operational reliability only if original accessories and spare parts intended for the appliance are used.

7.2 Instructions, standards and regulations

Note
Observe all applicable national and regional regulations and instructions.

8. System description

The EASYTRON Connect system is responsible for individual room control in buildings. If a heat pump is connected to the system via ISG web, demand-dependent individual room control is possible.

8.1 Standard delivery

EASYTRON Connect base station EZE

- 1 EASYTRON Connect base station EZE
- 1 power supply unit for EASYTRON Connect base station EZE
- 1 network cable for EASYTRON Connect base station EZE

EASYTRON Connect starter set ESS

- 1 EASYTRON Connect base station EZE
- 1 EASYTRON Connect underfloor heating controller EHF
- 3 EASYTRON Connect room temperature sensors ERT
- 1 power supply unit for EASYTRON Connect base station EZE
- 1 network cable for EASYTRON Connect base station EZE

8.2 Additional accessories

- Internet Service Gateway ISG web
- EASYTRON Connect radiator actuator ERS
- EASYTRON Connect repeater ERE
- EASYTRON Connect underfloor heating actuator EFS
- EASYTRON Connect adaptor set EAD
- USB LAN adaptor EIL
- EASYTRON installation stick EIW (WLAN)
- EASYTRON installation kit EIL (LAN)

9. Preparation

To install the system, you will need a computer and a wired or wireless home network.

To operate the system when away from home, you will need internet access and a mobile device with the EASYTRON Connect app installed.

10. Installation

10.1 Installation location

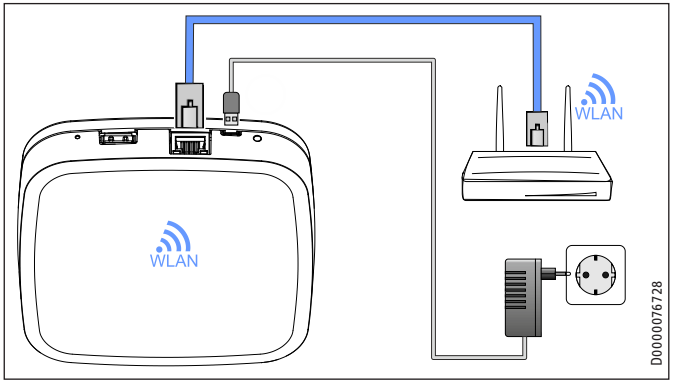
Observe the following requirements when selecting the installation location:

- The installation location must have a 230 V standard socket.
- It must be centrally located within the range of the wireless components.
- A LAN connection to the client network must be available at the installation location or the installation location must be in range of the WLAN client network.

▶ Set the device up at a height of at least 70 cm.

11. Electrical connection

WARNING Electrocution
Carry out all electrical connection and installation work in accordance with national and regional regulations.



▶ To establish a wired connected to the client network, connect the device to the network via LAN.

Note
Never exceed a total LAN cable length of 100 m.

▶ Connect the power supply unit to the device.

▶ Plug the power supply unit into a standard socket.

12. Commissioning

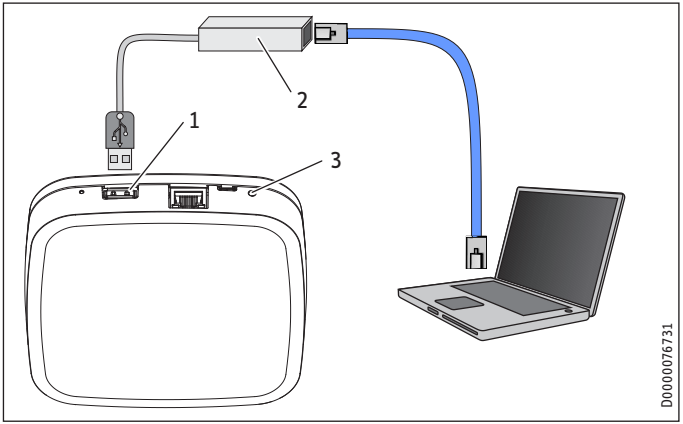
Note
If the device is connected to the internet and a software update is loaded, additional costs may be incurred.

12.1 Preparation

- ▶ In the computer's network settings, activate automatic address allocation (DHCP).
- ▶ Ensure that no proxy server is activated.

12.2 Initial start-up

Note
The device has a commissioning wizard that will take you through the most important settings the first time it is started.



1 USB port
2 USB LAN adaptor
3 LED

Connection via LAN with installation kit EIL

- ▶ Connect the device to the computer via the USB LAN adaptor:

Connection via WLAN with installation stick EIW

Note
Changes to the WLAN, e.g. a new router, require you to set up the device again.

- ▶ Insert the installation stick into the USB port. A hotspot is generated.
- ▶ Link the computer with the hotspot.

Connection via WLAN via client network

Note
When connecting via WLAN, you will need the credentials for the client network.
Changes to the WLAN, e.g. a new router, require you to set up the device again.

- ▶ Connect the device to the network via WLAN.
- ▶ Connect the computer to the network.

12.2.1 Commissioning wizard

The commissioning wizard starts automatically in the browser.

Problem	Type of connection	Remedy
The commissioning wizard does not start automatically.	Connection via LAN with installation kit	Enter the address http://10.0.0.1 in the address line of the browser.
	Connection via WLAN with installation stick	Enter the address http://10.0.0.1 in the address line of the browser.
	Connection via LAN or WLAN via client network	Call up the router. Search under "Connected devices" for the EASYTRON base station. Enter the specified IP address in the browser.

- ▶ Follow the instructions of the commissioning wizard in the browser.

You can call up the commissioning wizard again later on via the device menu.

Login

Note
During initial start-up, no pairing is required.

Network

- ▶ Connect the device to the client network.
- ▶ You can connect to the network via the following interfaces:
- LAN connection via DHCP with automatic setup of the network connection
- LAN connection with manual settings
- WLAN connection
- Proxy connection

▶ Connect to the internet to enable updates or operation of the system when away from home.

When the device is connected to the internet, it searches for software updates.

Note
If the device is connected to the internet and a software update is loaded, additional costs may be incurred.

▶ If a software update is available, install it.
▶ To operate the system when away from home, activate the connection to EASYTRON Connect.

Heat pump

Note
ISG web is required to identify the heat pump. The system searches the home network for ISG web. ISG web can only be found if it is on the same sub-network.

▶ Select the heat pump you want to connect to the system.

Energy generator

▶ If you set the function to "Heat pump", the set heat pump temperature can be selected via the app.
▶ Switch individual room control on or off.

Rooms

▶ Create the rooms you want to control via the system.
▶ Specify which heating circuits should be used.

My system

▶ Give the system a name.
▶ Enter the location of the system with postcode and town. Based on these details, you can view the weather in the app.

User

Note
Credentials are required for access to the device menu.
▶ Advise the user to keep the credentials safe.

▶ Create one user as Expert.
▶ Create one user as Admin.

Other users can be added later on in the app.

User name	Password

Date and time

▶ Select whether the date and time should be synchronised via the internet or the dedicated NTP server or set manually.

12.2.2 Status indicator

After successful setup on the client network, the LED on the device side has a steady green light. Observe the chapter "Operation / Troubleshooting / Status display of EASYTRON Connect base station EZE" if the LED does not have a steady green light.

▶ Carry out pairing of wireless components in the device menu (see chapter "Connecting wireless components").

13. Connecting wireless components

Note
If you pair several actuators for radiators in one room, the wireless component that was paired first is the master component.
The temperature of the master component is displayed in the app.
If the room also has a room temperature sensor, the temperature read by the room temperature sensor is displayed in the app.

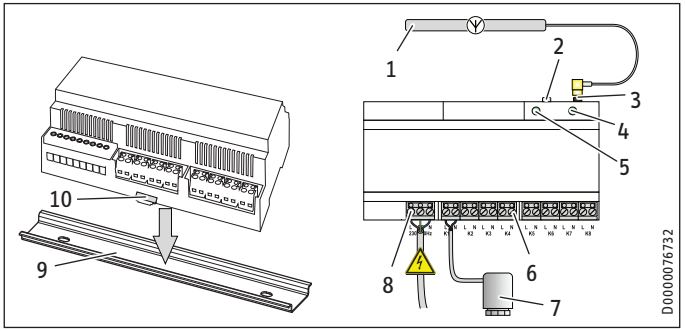
▶ Enter the IP address for the base station in the address line of the browser (see chapter "Commissioning / Initial start-up / Commissioning wizard").

▶ Log in to the base station with the credentials.

▶ Connect the base station to the available wireless components. Start with the EASYTRON Connect underfloor heating controller EHF.

▶ Observe the individual chapters for the wireless components.

13.1 EASYTRON Connect underfloor heating controller EHF



1 Antenna
2 Learn button
3 Antenna terminal
4 ON/OFF indicator
5 LED
6 Outputs for actuators
7 Servomotor
8 Power supply
9 Top-hat rail
10 Hook

13.1.1 Installation

WARNING Electrocution
▶ **Isolate the system from the power supply when carrying out any work.**

Note
The device is designed for installation on a top-hat rail.
▶ Install the device in a control panel, which should only be opened with the appropriate tool in order to ensure protection rating IP 20.

- ▶ When selecting the installation location, ensure that the antenna can be mounted outside the control panel.
- ▶ Install the top-hat rail for the device in the underfloor heating system control panel.
- ▶ Mount the device on the top-hat rail. Ensure that the hooks click into place.
- ▶ Connect the antenna to the antenna terminal on the device.

Note
Once all wireless components have been paired, you can then secure the antenna outside the control panel.

13.1.2 Electrical connection

WARNING Electrocution
Carry out all electrical connection and installation work in accordance with national and regional regulations.

WARNING Electrocution
▶ **Isolate the system from the power supply when carrying out any work.**

- ▶ Connect the thermoelectric actuators for underfloor heating (EFS, 230 V and function closed at zero volt (NC)) according to the terminal assignment on the device.
- ▶ Connect the power supply according to the terminal assignment on the device.

When the device is ready for operation, the ON/OFF indicator shows a steady green light.

13.1.3 EASYTRON Connect base station EZE pairing

- ▶ On the base station, go to the "Wireless components" / "Pair and unpair" / "Pair" menu.
- ▶ Press and hold the learn button on the device for two seconds.
- ▶ When the base station detects the device, enter a name (e.g. Ground floor).
- ▶ Press the learn button two or three times at one-second intervals to complete pairing.

LED	Meaning
LED lights up for two seconds	Connected to the base station.
LED flashes rapidly	Not connected to the base station.

Note
Before the channels can be assigned a room, an EASYTRON Connect room temperature sensor ERT must be installed in the relevant room.
▶ Observe the chapter "EASYTRON Connect room temperature sensor ERT".

▶ Check in the base station "Connection status" menu that the device was successfully paired.

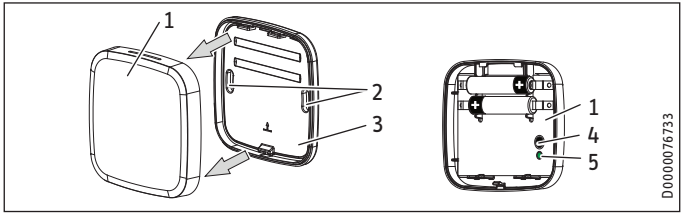
If the device was successfully paired, the base station menu displays a green dot behind the device.

▶ If the connection to the device was not established, observe chapter "Troubleshooting".

13.1.4 Securing the antenna

▶ Secure the device antenna at the installation location using the adhesive strips supplied.

13.2 EASYTRON Connect room temperature sensor ERT



1 Casing top
2 Fixing holes
3 Casing bottom
4 Learn button
5 LED

13.2.1 Opening the casing

▶ Hold the bottom of the casing top and pull it away from the casing bottom.

▶ Unhook the casing top by angling it diagonally up.

13.2.2 Installation

▶ When selecting the installation location, ensure that no electrical cables or water pipes are routed inside the wall.

▶ Secure the casing bottom to the wall using suitable rawl plugs and screws in the fixing holes.

Material losses
Never use rechargeable batteries.

- ▶ Insert the batteries into the device. Observe the correct polarity.

13.2.3 EASYTRON Connect base station EZE pairing

- ▶ On the base station, go to the "Wireless components" / "Pair and unpair" / "Pair" menu.
- ▶ Press and hold the learn button on the device until the LED flashes.
- ▶ When the base station detects the device, assign a room to the device and enter a name (e.g. Wall left).
- ▶ Press the learn button to complete pairing.

LED	Meaning
LED lights up for two seconds	Connected to the base station.
LED flashes rapidly	Not connected to the base station.

- ▶ Check in the base station "Connection status" menu that the device was successfully paired.

If the device was successfully paired, the base station menu displays a green dot behind the device.

- ▶ If the connection to the device was not established, observe chapter "Troubleshooting".

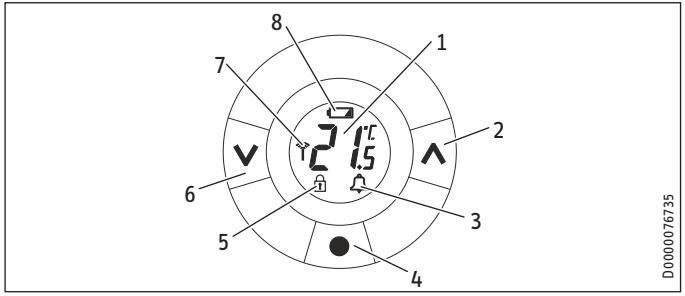
13.2.4 Closing the casing

- ▶ Insert the locking tabs on the casing top into the top of the casing bottom.
- ▶ Push the bottom of the casing top on to the casing bottom.

13.2.5 Channel assignment

- ▶ On the base station, go to the "Wireless components" / "Manage" menu.
- ▶ Select the underfloor heating controller.
- ▶ Open the "Edit" menu.
- ▶ Assign a room to the channel.

13.3 EASYTRON Connect radiator actuator ERS



1 Set temperature
2 "Up" button
3 Alarm
4 Learn button
5 Lock
6 "Down" button
7 Wireless connection
8 Battery symbol

13.3.1 Preparation

▶ Remove the battery cover.

Material losses
Never use rechargeable batteries.

▶ Insert the batteries into the device. Observe the correct polarity.

▶ Close the device with the battery cover.

A flashing "M" is displayed.

Battery charge statuses

Display indication	Meaning
Battery symbol flashes	Battery charge is low
Display flashes	Battery charge is critical

13.3.2 EASYTRON Connect base station EZE pairing

▶ On the base station, go to the "Wireless components" / "Pair and unpair" / "Pair" menu.

A flashing "M" is displayed.

Note
▶ If the display does not show a flashing "M", press and hold the learn button on the device for two seconds until an "M" appears.
▶ Press the learn button again. The "M" starts to flash.

▶ Press the learn button.

▶ When the base station detects the device, assign a room to the device and enter a name (e.g. Radiator window side).

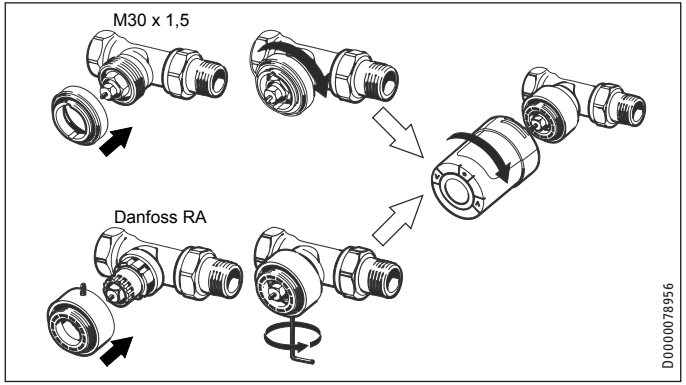
▶ Press the learn button to complete pairing.

13.3.3 Installation

Before installation, a flashing "M" must be displayed.

Note
- ▶ If the display does not show a flashing "M", press and hold the learn button on the device for two seconds until an "M" appears.
- ▶ Press the learn button again. The "M" starts to flash.

Note
Other adaptors are available as accessories for the device.



- ▶ If required, use screws to attach an adaptor to the radiator valve.
- ▶ Attach the device to the adaptor with hand-tightened screws.
- ▶ Press and hold the learn button for three seconds until the display goes off. The device attaches audibly to the radiator valve.
- ▶ Check in the base station "Connection status" menu that the device was successfully paired.

If the device was successfully paired, the base station menu displays a green dot behind the device.

- ▶ If the connection to the device was not established, observe chapter "Troubleshooting".

13.4 Completing the connection of wireless components

Connection via LAN

- ▶ Remove the USB LAN adaptor from the base station.

Connection via WLAN

- ▶ Remove the installation stick from the base station.

14. Settings

Via the "Pro" menu item in the device menu, you can make further settings (e.g. set temperatures).

Switching times can be set for heating rooms.

▶ Check the switching times and adjust them if required.

15. Connection test

15.1 Connection test on the EASYTRON Connect base station EZE

▶ Check in the base station "Connection status" menu that the wireless components were successfully paired.

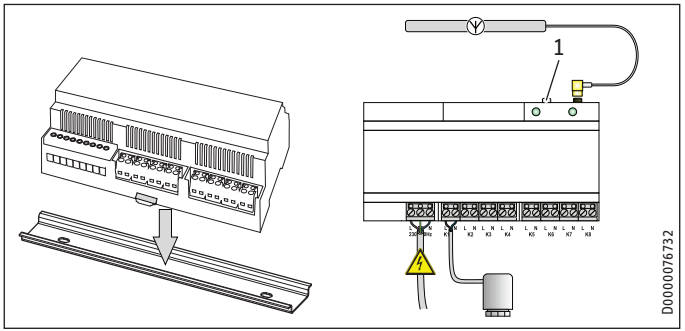
▶ Test the connection to the wireless components via the base station "Connection test" menu.

▶ Press the learn button on the wireless components.

15.2 Connection test on the wireless components

You can also perform the connection test directly on the wireless components.

15.2.1 EASYTRON Connect underfloor heating controller EHF

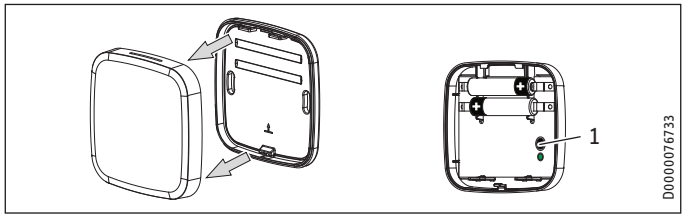


1 Learn button

▶ Press the learn button quickly three times. The LED flashes quickly three times to confirm.

LED	Meaning
LED flashes slowly	Performing connection test.
LED lights up for two seconds	Connected to the base station.
LED flashes rapidly	Not connected to the base station.

15.2.2 EASYTRON Connect room temperature sensor ERT

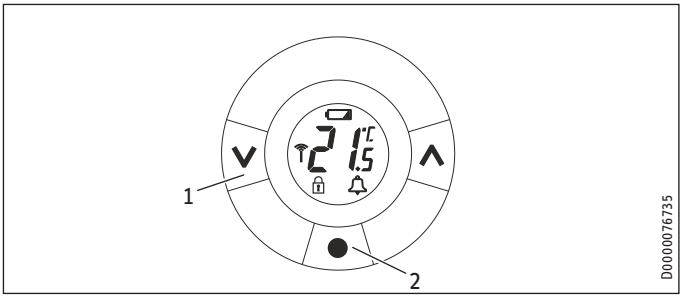


1 Learn button

▶ Press the learn button quickly three times. The LED flashes quickly three times to confirm.

LED	Meaning
LED flashes slowly	Performing connection test.
LED lights up for two seconds	Connected to the base station.
LED flashes rapidly	Not connected to the base station.

15.2.3 EASYTRON Connect radiator actuator ERS



1 "Down" button
2 Learn button

▶ Press and hold the learn button for three seconds until "M" is displayed.

▶ Press the "Down" button until the display shows "LI".

▶ Press the learn button to confirm.

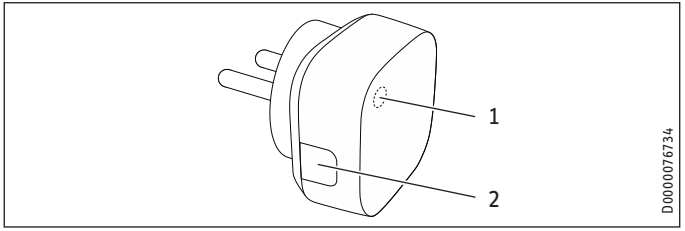
Display indication	Meaning
"LI" disappears	Connected to the base station.
"Antenna" and "Alarm" symbols flash	Not connected to the base station.

15.3 Failed connection to the EASYTRON Connect base station EZE

If the connection to one or more wireless components cannot be established, the wireless range is insufficient.

- ▶ Set up the base station somewhere else.
- ▶ Reposition the antenna for the underfloor heating controller.
- ▶ If you use an underfloor heating controller or repeater, go to the base station "Wireless system" menu and select the "Optimise wireless system" function.
- ▶ If one or more wireless components are still not connected, install the repeater (see chapter "EASYTRON Connect repeater ERE".

15.4 EASYTRON Connect repeater ERE



1 LED
2 Learn button

15.4.1 Installation

- ▶ Plug the device into a 230 V standard socket somewhere between the base station and the unconnected wireless component. Ensure that the device is installed at a height of at least 70 cm.

15.4.2 EASYTRON Connect base station EZE pairing

- ▶ On the base station, go to the "Wireless components" / "Pair and unpair" / "Pair" menu.
- ▶ Press and hold the learn button on the device for two seconds.

After successful connection to the base station, the LED on the device lights up.

When the base station detects the device, enter a name (e.g. Repeater upper floor).

- ▶ In the base station "Wireless system" menu, select the "Optimise wireless system" function.
- ▶ Perform a connection test for unconnected wireless components.

If the connection to one or more wireless components cannot be established, the wireless range is insufficient.

- ▶ Reposition the repeater.
- ▶ If the connection still cannot be established, install another repeater.

15.5 Resetting wireless components to the factory setting

- ▶ Press and hold the learn button for seven seconds until the LED flashes.

After a successful reset, the LED lights up for two seconds.

15.5.1 EASYTRON Connect radiator actuator ERS

The device can be reset to factory settings while installed or uninstalled.

- ▶ Open the battery compartment and remove a battery.
- ▶ Keeping the learn button pressed, re-insert the battery. The display shows all symbols and numbers (display test).
- ▶ Keep the learn button pressed until the display goes off and the device actuates the heating valve.

After a successful reset, the "M" on the display starts to flash.

- ▶ Perform pairing with the base station again.

Note

- ▶ If the device is paired in the system after the reset, you need to unpair the device from the system (see "Wireless components" / "Pair and unpair" / "Remove failed wireless component") menu.

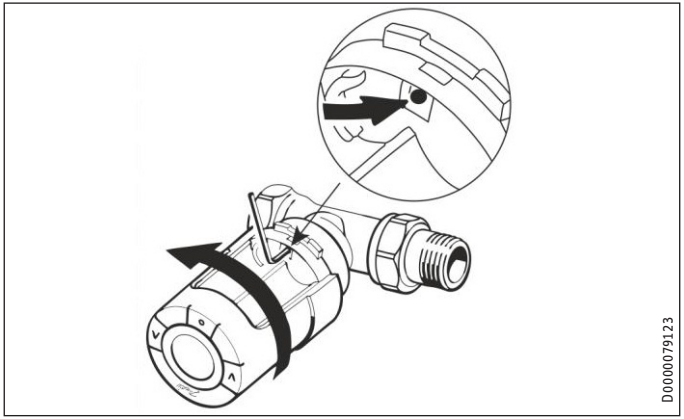
16. Appliance shutdown

16.1 Unpairing wireless components

- ▶ On the base station, go to the "Wireless components" / "Pair and unpair" / "Unpair" menu.
- ▶ Follow the steps for pairing (see chapter "Connecting wireless components").

16.2 Dismantling the EASYTRON Connect radiator actuator ERS

- ▶ Press and hold the learn button for three seconds until "M" is displayed.
- ▶ Press the learn button to confirm. The "M" starts to flash.
- ▶ Open the battery compartment and remove the batteries.



- ▶ Insert an Allen key into the hole to loosen the adaptor ring.
- ▶ Turn the device together with the Allen key anti-clockwise to unscrew the device from the valve adaptor.
- ▶ If required, unscrew the valve adaptor from the radiator valve.

17. Specification

17.1 Data table

17.1.1 EASYTRON Connect base station EZE

		EZE
		237737
Application limits		
Operating temperature range	°C	-10...+50
Electrical data		
Power consumption	W	5
Supply voltage	V	5
Power supply, power supply unit		1/N ~ 230 V 50 Hz
Versions		
Colour		White
Type of installation		Floorstanding appliance
Dimensions		
Height	mm	124
Width	mm	124
Depth	mm	28
Weights		
Weight	kg	0.17
Connections		
USB		2.0
10/100 Ethernet		RJ 45
Z-Wave radio	MHz	868.42
WLAN		802.11 b/g/n
Values		
Storage and transport temperature	°C	-25 ...+60

17.1.2 EASYTRON Connect underfloor heating controller EHF

		EHF
		237736
Application limits		
Operating temperature range	°C	-10...+50
Electrical data		
Power consumption	VA	5
Max. relay output breaking capacity	A	1 A
Versions		
Colour		Grey
Type of installation		DIN rail
Protection class		II (for installation in a distribution box)
IP rating		IP00
Dimensions		
Height	mm	91
Width	mm	160
Depth	mm	58
Weights		
Weight	kg	0.25
Connections		
Z-Wave radio	MHz	868.42
Values		
Storage and transport temperature	°C	-25...+60

17.1.3 EASYTRON Connect underfloor heating actuator EFS

		EFS
		237740
Electrical data		
Rated voltage	V	230
Frequency	Hz	50/60
Max. starting current	A	0.55
Versions		
IP rating		IP54
Protection class		II
Dimensions		
Height	mm	52.5
Width	mm	44.3
Depth	mm	48.4
Weights		
Weight	kg	0.1

17.1.4 EASYTRON Connect room temperature sensor ERT

		ERT
		237738
Application limits		
Operating temperature range	°C	-10...+50
Electrical data		
Power supply		Battery 2x 1.5 V AAA
Versions		
Colour		White
Type of installation		Wall mounted device
Dimensions		
Height	mm	79
Width	mm	79
Depth	mm	18
Weights		
Weight	kg	0.075
Connections		
Z-Wave radio	MHz	868.42
Values		
Storage and transport temperature	°C	-25...+65

17.1.5 EASYTRON Connect radiator actuator ERS

		ERS
		237741
Application limits		
Operating temperature range	°C	0...+40
Max. heating flow temperature	°C	90
Mechanical load	N	70
Maximum adjustment travel	mm	4.5
Electrical data		
Power supply		Battery 2x 1.5 V AA
Control signal		Linear
Versions		
Colour		White
Dimensions		
Length	m	0.091
Diameter	mm	51
Weights		
Weight	kg	0.195
Connections		
Z-Wave radio	MHz	868.42
Values		
Storage and transport temperature	°C	-20...+65
Spindle movement		2-3 mm at valve (1 mm/s)

17.1.6 EASYTRON Connect repeater ERE

		ERE
		237743
Application limits		
Operating temperature range	°C	-10...+50
Electrical data		
Power consumption	W	1.8
Power supply		1/N ~ 230 V 50 Hz
Versions		
Colour		White
Type of installation		Plug-in device
Dimensions		
Height	mm	45
Width	mm	45
Depth	mm	60
Weights		
Weight	kg	0.038
Connections		
Z-Wave radio	MHz	868.42
Values		
Storage and transport temperature	°C	-25...+60

Guarantee

The guarantee conditions of our German companies do not apply to appliances acquired outside of Germany. In countries where our subsidiaries sell our products a guarantee can only be issued by those subsidiaries. Such guarantee is only granted if the subsidiary has issued its own terms of guarantee. No other guarantee will be granted.

We shall not provide any guarantee for appliances acquired in countries where we have no subsidiary to sell our products. This will not affect warranties issued by any importers.

Environment and recycling

We would ask you to help protect the environment. After use, dispose of the various materials in accordance with national regulations.

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