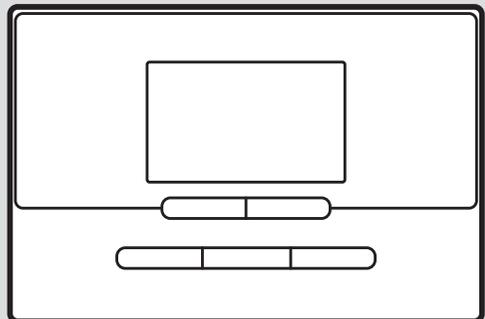


Climapro

Climapro₁
Climapro₁ RF



Installation and maintenance instructions

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1 Safety

1.1 Action-related warnings

Classification of action-related warnings

The action-related warnings are classified in accordance with the severity of the possible danger using the following warning symbols and signal words:

Warning symbols and signal words

**Danger!**

Imminent danger to life or risk of severe personal injury

**Danger!**

Risk of death from electric shock

**Warning.**

Risk of minor personal injury

**Caution.**

Risk of material or environmental damage

1.2 Intended use

In the event of inappropriate or improper use, damage to the product and other property may arise.

The product is intended for controlling a heating installation with heat generators via the eBUS interface in a way that

is weather-compensated and time-dependent.

The control can control the domestic hot water generation from a connected domestic hot water cylinder.

If a heat pump is connected, the control allows you to control the cooling function.

Intended use includes the following:

- observance of accompanying operating, installation and maintenance instructions for the product and any other system components
- installing and setting up the product in accordance with the product and system approval
- compliance with all inspection and maintenance conditions listed in the instructions.

Intended use also covers installation in accordance with the IP code.

Any other use that is not specified in these instructions, or use beyond that specified in this document, shall be considered improper use. Any direct commercial or industrial use is also deemed to be improper.

Caution.

Improper use of any kind is prohibited.

1.3 General safety information

1.3.1 Risk caused by inadequate qualifications

The following work must only be carried out by competent persons who are sufficiently qualified to do so:

- Set-up
- Dismantling
- Installation
- Start-up
- Inspection and maintenance
- Repair
- Decommissioning
- ▶ Proceed in accordance with current technology.

1.3.2 Risk of material damage caused by frost

- ▶ Do not install the product in rooms prone to frost.

1.3.3 Risk of death from live connections

When working in the electronics box of the boiler, there is a risk of death from electric shock. Continuous voltage is present on the power supply terminals, even if the main switch is turned off.

- ▶ Switch the main switch off before working on the electronics box of the boiler.

- ▶ Disconnect the boiler from the power grid by disconnecting the mains plug or by de-energising the boiler via a partition with a contact gap of at least 3 mm (e. g. fuses or power switches).
- ▶ Check that the boiler is de-energised.
- ▶ Secure the power supply against being switched back on.
- ▶ Open the electronics box only when the boiler is disconnected from the power supply.

1.3.4 Danger due to malfunctions

- ▶ Ensure that the heating installation is in a technically perfect condition.
- ▶ Ensure that no safety or monitoring devices have been removed, bridged or disabled.
- ▶ Immediately eliminate any faults and damage that may affect safety.
- ▶ Install the control in a location where it is not covered by furniture, curtains, or other objects.
- ▶ At lengths of 10 m or more, power supply cables must be laid separately from sensor or bus lines.



1.3.5 Risk of material damage caused by an unsuitable installation room

If you are installing the control in a wet room, the electronics may be damaged by moisture.

- ▶ The control should only be installed in dry rooms.

1.3.6 Risk of material damage caused by using an unsuitable tool

- ▶ Use the correct tool.

1.4 Regulations (directives, laws, standards)

- ▶ Observe the national regulations, standards, directives, ordinances and laws.

2 Notes on the documentation

2.1 Observing other applicable documents

- ▶ Always observe all the operating and installation instructions included with the system components.

2.2 Storing documents

- ▶ Pass these instructions and all other applicable documents on to the end user.

2.3 Validity of the instructions

These instructions apply for the following product only:

Product article number

	Article number
Climapro ₁	0020118077
Climapro ₁ RF	0020118078

3 Product description

3.1 Data plate

The data plate is located inside the control on the rear of the control's electronics (P-CB).

Information on the data plate	Meaning
Serial number	for identification; 7th to 16th digits = product article number
Climapro ₁	Product designation
4 x AA (Climapro ₁ RF only)	Power supply: Four ALKALINE AA LR6 batteries
mA	Power consumption
	Read the instructions

3.2 CE marking



The CE marking shows that the products comply with the basic requirements of the applicable directives as stated on the declaration of conformity.

The manufacturer hereby declares that the type of radio equipment that is described in these instructions complies with Directive 2014/53/EU. The complete text for the EU Declaration of Conformity is available at: <http://www.vaillant-group.com/doc/doc-radio-equipment-directive/>.

4 Set-up

4.1 Checking the scope of delivery

- ▶ Check that the scope of delivery is complete and intact:

Climapro₁

Quantity	Contents
1	Room temperature control
1	Enclosed documentation

Climapro₁ RF

Quantity	Contents
1	Control
1	Unit mounting bracket
1	Radio receiver
4	ALKALINE 1.5 V-AA batteries (separate or pre-installed)
1	Enclosed documentation

4.2 Selecting the lines

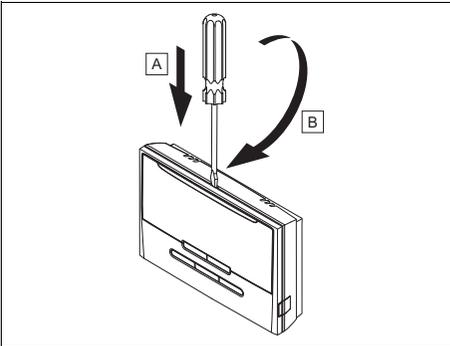
The connection cables must comply with the technical specifications (→ Technical data in the appendix).

4.3 Requirements for the installation site

- ▶ Install the product:
 - On an internal wall of the main living room
 - In a frost-free room
 - With sufficient clearance to heat sources (e.g. radiator, hearth, television) and to doors or windows (to prevent draughts)
- ▶ Do not install the product:
 - Above a cooker, from which vapours and grease are released
 - At cold external walls
 - Between furniture, behind curtains or other objects that may prevent the room air from being recorded
 - In an extremely dusty or corrosive environment

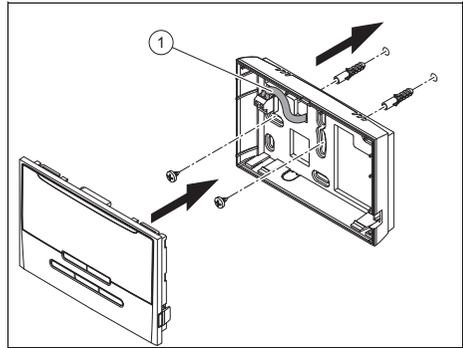
4.4 Installing the wired control

4.4.1 Disconnecting the control from the wall base



- ▶ Disconnect the control from the wall base.

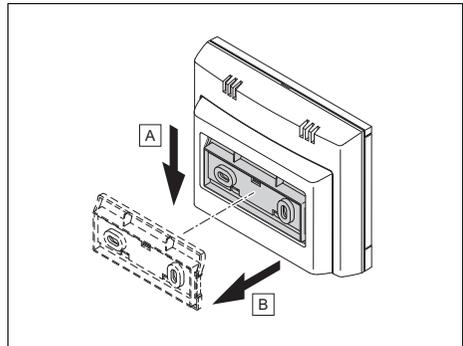
4.4.2 Wall-mounting the control



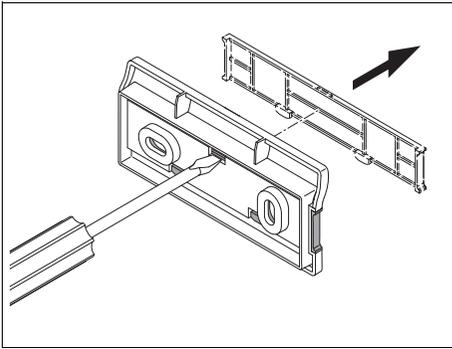
1. Connect the eBUS cable (1) in the wall base.
2. Route the eBUS cable through the grommet in the wall base.
3. Use suitable screws and wall plugs to wall-mount the wall base at a height of approx. 1.5 m.
4. Fit the control onto the wall base.

4.5 Fitting the radio control

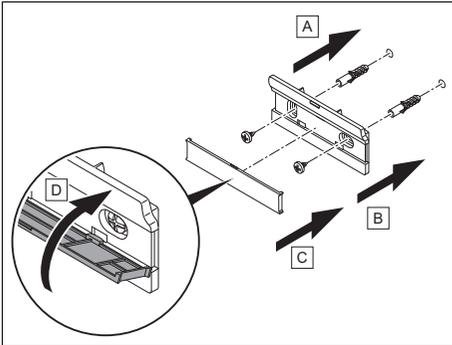
4.5.1 Wall-mounting the unit mounting bracket



1. Remove the unit mounting bracket from the control.

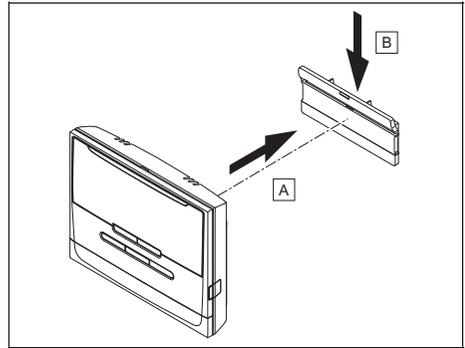


2. Remove the cover on the unit mounting bracket.



3. Use suitable screws and wall plugs to wall-mount the unit mounting bracket at a height of approx. 1.5 m.
4. Secure the cover to the unit mounting bracket.

4.5.2 Fitting the control



- Fit the control on the unit mounting bracket so that you hear it click into place.

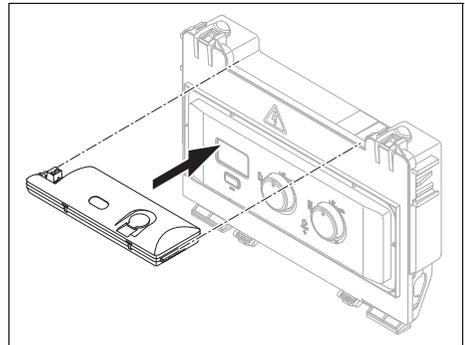
4.6 Installing the radio receiver

The radio receiver can be installed on the electronics box or in the electronics box in the boiler.

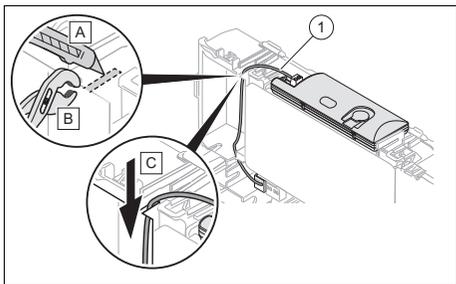
- Determine the installation site for the radio receiver in the boiler.

If it is not possible to install it inside the boiler, install the radio receiver outside of the boiler.

4.6.1 Installing the radio receiver on the electronics box

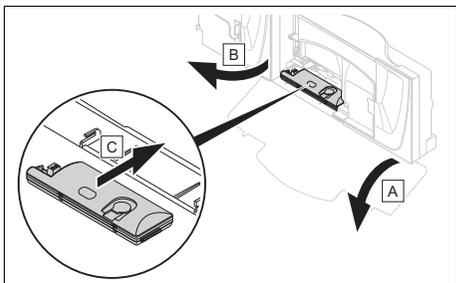


1. Fit the radio receiver onto the electronics box.



2. Break out the pre-punched grommet.
3. Route the eBUS cable (1) through the grommet.

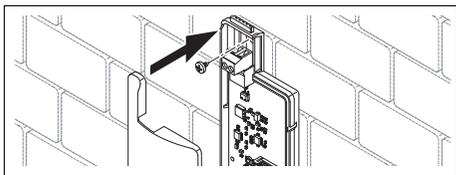
4.6.2 Installing the radio receiver in the electronics box



- ▶ Install the radio receiver in the electronics box.

4.6.3 Installing the radio receiver outside of the boiler

1. Remove the cover from the radio receiver.



2. Use a suitable screw to wall-mount the radio receiver directly adjacent to the heat generator.
 - Clearance from the floor: Approx. 1.80 m
 - Sufficient clearance from metal parts (cables, electrical control pan-

els, metal walls) to secure the radio transmission

5 Electrical installation

Only qualified electricians may carry out the electrical installation.



Caution.

Material damage caused by an incorrect electrical connection.

- ▶ Do not connect the control or radio receiver to a 230 V connection terminal.

- ▶ Do not remove the jumper on the boiler's connection plug (RT24V).

The position of the eBUS connection terminal can vary. It is always labelled with the writing *BUS*.

5.1 Connecting the control or radio receiver to the boiler

1. When opening the electronics box in the heat generator, proceed as described in the installation instructions for the heat generator.
2. Connect the eBUS line to the radio receiver.



Note

The radio control has already been successfully synchronised with the associated radio receiver at the factory.

3. Connect the eBUS line for the wired control or radio receiver to the eBUS terminal on the heat generator.

5.2 Connecting the wireless control to Systempro

The radio receiver is already integrated into the Systempro. When operating the control with a Systempro, no additional electrical connection needs to be established.

5.3 Connecting the wired control to Smart Wiring Centre 2

1. Open the housing of the Smart Wiring Centre 2, as described in the installation instructions for the Smart Wiring Centre 2.
2. Connect the eBUS line to the eBUS terminal in the control's wall base.
3. Connect the eBUS line to the eBUS terminal for the Smart Wiring Centre 2.

6 Start-up

1. Fully open all thermostatic valves on the radiators in the room in which the control is installed.
2. Start up the heating installation.

Condition: Radio controller

- ▶ Remove the insulating tab from the battery compartment.
- ▶ Follow the instructions in the installation assistant.
- ▶ Implement the settings and select the required options depending on the configuration of the heating installation.
- ▶ After the installation assistant ends, you are in the installer level (→ Appendix).
- ▶ Implement the default settings for the existing heating system.
- ▶ Check the installation by creating a heat demand.

7 Handing over to the end user

- ▶ Inform the end user of how to handle and operate their product.
- ▶ Provide the end user with all relevant instructions and unit documentation for safe-keeping.
- ▶ Go through the operating instructions with the end user.
- ▶ Answer any questions the end user may have.
- ▶ In particular, draw the end user's attention to the safety warnings that they must follow.
- ▶ Ensure that the end user is familiar with all of the anti-legionella function measures in order to comply with the applicable regulations regarding legionella prevention.
- ▶ Inform the end user that they must have the product maintained in accordance with the specified intervals.

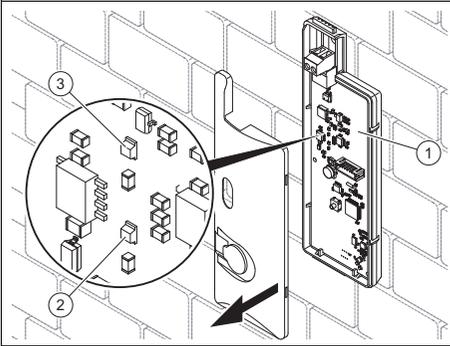
Condition: Radio control

- ▶ Advise the end user that the control may not work as well as it should do if it is removed from its intended installation site.
- ▶ Inform the end user that the reception strength between the radio receiver and the control or outdoor temperature sensor is affected by electrical devices or building components.

8 Troubleshooting

- ▶ If faults occur, proceed in accordance with the tables in the appendix.

8.1 Eliminating faults on the radio receiver



1. Remove the cover from the radio receiver so that you can see the two LEDs.
2. Check the status of the green LED (3) and the red LED (2) on the radio receiver's PCB (1).
3. You can find an overview of the potential faults in the table in the appendix.

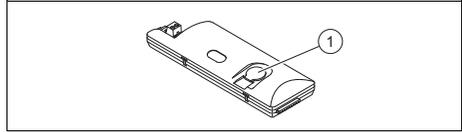
8.2 Resetting the control to factory settings

1. Press and hold the two arrow buttons at the same time for 10 seconds.
2. Press the OK button to confirm that you are resetting to the factory settings.
 - ◁ All personal settings on the control are deleted. Once you have reset to the factory settings, you cannot undo this.
 - ◁ After executing this function, the installation assistant starts up again.

Condition: Radio control

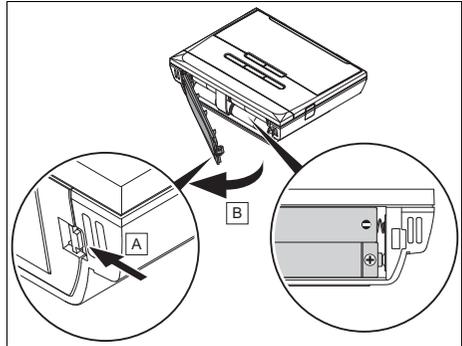
- After resetting the control to the factory settings, you must synchronise the control with the radio receiver again.

8.2.1 Synchronising the control with the radio receiver



1. Remove the rubber cover (1) from the radio receiver.
2. Press and hold the synchronise button.
3. Start the radio link process on the control.
4. Wait until the control has successfully established the connection.

8.3 Changing batteries (radio control only)



Danger!

Risk of death caused by unsuitable batteries!

If batteries – whether rechargeable or non-rechargeable – are replaced with the wrong type of battery, there is a risk of explosion.

- Ensure that you use the correct battery type when replacing batteries.
- Dispose of used batteries in accordance with the instructions in this manual.

1. Open the battery compartment cover.
2. Remove the batteries.
3. Replace the batteries with new AL-KALINE AA LR6 batteries and pay attention to the polarity of the batteries (the direction of the plus and minus poles).

8.4 Procuring spare parts

The original components of the product were also certified by the manufacturer as part of the declaration of conformity. If you use other, non-certified or unauthorised parts during maintenance or repair work, this may result in the product no longer meeting the applicable standards, thereby voiding the conformity of the product.

We strongly recommend that you use original spare parts from the manufacturer as this guarantees fault-free and safe operation of the product. To receive information about the available original spare parts, contact the contact address provided on the back page of these instructions.

- ▶ If you require spare parts for maintenance or repair work, use only the spare parts that are permitted for the product.

9 Installer level

9.1 Providing access to the installer level



Note

It is still possible to access the installer level once start-up is complete.

1. Press and hold the menu button for approx. seven seconds.
2. Enter the access code 96.
3. Press the OK button.
Installer level (→ Page 15)
Overview of the possible menus and functions (→ Page 16)
4. To return to the user menu, press and hold the menu button for three seconds.

9.2 Additional functions

9.2.1 Automatic adjustment of the heat curve (outdoor temperature sensor connected)

Heating parameters → Outdoor sensor → Auto. management

The *Automatic heat curve* function continuously determines the optimum value so that the heating installation can achieve the best possible level of comfort and efficiency. The optimum value is only reached after the system has been switched on for 24 hours. This function should be switched on.

If the function is deactivated, you can manually set the heat curve.

9.2.2 Influence on the room temperature (temperature control function)

Heating parameters → Room T° function

The boiler controls the flow temperature in accordance with the following criteria:

- Outdoor temperature with room influence
- Outdoor temperature without room influence (outdoor temperature sensor connected).

If this function is deactivated, the room temperature is no longer taken into consideration for the heating control – only the outdoor temperature is taken into consideration (outdoor temperature sensor connected).

9.2.3 Automatic heating flow

Heating parameters → Anticipation

You can use this function to activate the heating installation before the start of the programmed time programme.

The function is only carried out for the first time programme of the day.

9.2.4 Modulating control system

Heating parameters → Control modulation

You can use this function to adjust the water temperature in the heating system.

The control is a weather-compensated control with an outdoor temperature sensor. The outdoor temperature sensor forwards the values to the control. When the outdoor temperature is low, the control increases the flow temperature of the heating installation. If the outdoor temperature increases, the control reduces the flow temperature. This is how the control responds to fluctuations in the outdoor temperature and uses the flow temperature to constantly ensure that the room temperature remains at the desired temperature that you have set.

9.2.5 Using the control as a primary or secondary control

The control can be used as a primary or secondary control.

9.2.5.1 Primary control

The installation comprises one single control which is usually in the building's main room (zone 1). The control offers all of the available functions.

9.2.5.2 Secondary control

The secondary control is located in a different room and only offers a limited number of functions.

Overview of the possible menus and functions (→ Page 16)

10 Decommissioning

10.1 Permanently decommissioning the wired control

1. Decommission all components of the heating installation, as described in the installation instructions for the individual components.
2. Remove the control from the wall base.
3. Loosen the eBUS line on the wall base and on the boiler.
4. Unscrew the wall base from the wall.
5. If required, remove the outdoor temperature sensor.

10.2 Permanently decommissioning the radio control

1. Decommission all components of the heating installation, as described in the installation instructions for the individual components.
2. Take the control out of the unit mounting bracket.
3. Remove the batteries.
4. Remove the cover on the unit mounting bracket.
5. Unscrew the unit mounting bracket from the wall.
6. Loosen the eBUS line for the radio receiver on the boiler.
7. Remove the radio receiver.
8. If required, remove the outdoor temperature sensor.

11 Recycling and disposal

This product is an electrical or electronic unit within the context of EU Directive 2012/19/EU. The unit was developed and manufactured using high-quality materials and components. These can be recycled and reused.

Find out about the regulations that apply in your country regarding the separate collection of waste electrical or electronic equipment. Correctly disposing of old units pro-

fects the environment and people against potential negative effects.

- ▶ Dispose of the packaging correctly.
- ▶ Observe all relevant regulations.

Disposing of the product



■ If the product is labelled with this symbol:

- ▶ In this case, do not dispose of the product with the household waste.
- ▶ Instead, hand in the product to a collection centre for waste electrical or electronic equipment.

Disposing of batteries



■ If the product contains batteries that are labelled with this symbol:

- ▶ In this case, dispose of the batteries at a collection point for batteries.
 - ◁ **Prerequisite:** The batteries can be removed from the product without causing any destruction. Otherwise, the batteries are disposed of together with the product.
- ▶ In accordance with the legal regulations, the end user is obligated to return used batteries.

Deleting personal data

Personal data may be misused by unauthorised third parties.

If the product contains personal data:

- ▶ Ensure that there is no personal data on or in the product (e.g. online login details or similar) before you dispose of the product.

12 Customer service

For contact details for our customer service department, you can write to the address that is provided on the back page, or you can visit www.glow-worm.co.uk.

Appendix

A Installer level

The menu items that are displayed depend on the installation's functions or options.

INSTALLER MENU (Installer level)	Menu (functions)		Factory setting
Heating parameters	Outdoor sensor	Auto. management (only when an outdoor temperature sensor is connected: Automatic adjustment of the heat curve)	On
		Ext. T° correction (only when an outdoor temperature sensor is connected: Correction of the measured outdoor temperature)	0 °C
		Manually setting the heat curve	–
	Control modulation (control modulation)		On
	Room T° function (room temperature control or room influence)		On
	Anticipation (automatic heating flow)		Off
	Maximum room T° (maximum room temperature)		30 °C
	Room T° correction (correction of the room temperature)		0 °C
HW parameters	Hot water (domestic hot water mode)		On
	Maximum T° (max. domestic hot water temperature)		60 °C
	Programs (time programmes)		Off
Cooling parameters (only when a heat pump is connected)	Cooling (cooling mode)		Off
	Programs (time programmes)		Off
Settings	Efficiency info (system status/energy efficiency)		Off
	Energy Estimation (estimated consumption)		Off
	Auto summer/winter (autom. summer/winter time adjustment)		On
	Date / Time		–
	Language		–
	Phone		–
	Service indicator		Off
RF (additional menu on the radio control)	Launch the pairing procedure on the RF receiver or Systempro Press OK to continue (establishing a radio link)		
	Test		

A.1 Overview of the possible menus and functions

Menu (functions)	Connecting the control to				
	Boiler	Systempro (Climapro ₁ RF only)		Smart Wiring Centre 2 (Climapro ₁ only)	
	Control status				
	Primary control	Primary control	Second- ary control	Primary control	Second- ary control
Heating					
Auto. management (automatic adjustment of the heat curve)	X	-	-	-	-
Control modulation (activating/deactivating the control modulation)	X	-	-	-	-
Room T° function (activating/deactivating the room temperature control or room influence)	X	-	-	-	-
Anticipation (automatic heating flow)	X	-	-	X	X
Maximum room T° (maximum room temperature)	X	X	X	X	X
Room T° correction (correction of the room temperature)	X	X	X	X	X
Hot water					
Hot water (domestic hot water mode)	X	X	-	X	-
Program (time programmes)	X	X	-	X	-
Maximum T° (max. domestic hot water temperature)	X	X	-	X	-
Cooling					
Cooling (cooling mode)	-	X	X	-	-
Programs (time programmes)	-	X	X	-	-
Parameters (control settings)					
Efficiency info (energy efficiency)	-	X	X	-	-
Auto summer/winter (autom. summer/winter time adjustment)	X	-	-	X	-
Date / Time	X	X	-	X	-
Language	X	X	X	X	X
Service indicator (maintenance reminders)	X	-	-	X	-
About (unit information)	X	X	X	X	X
RF					
Launch the pairing procedure on the RF receiver or Systempro Press OK to continue (establishing a radio link)	X	X	X	-	-
Test	X	X	X	-	-

B Troubleshooting

All settings must be compatible with the heating installation.

B.1 Troubleshooting for the wired control

Symptom	Possible cause	Measure
Control display is empty	The power supply has been disconnected	<ol style="list-style-type: none"> 1. Ensure that the power supply is not interrupted. 2. Ensure that the boiler is connected correctly.
The room temperature does not reach the programmed temperature	Thermostatic valves not fully open	▶ Fully open all of the radiator thermostatic valves for the room in which the control is installed.
The room temperature exceeds the programmed temperature	Temperature control function is deactivated	▶ Activate the temperature control function.
	Heat curve incorrectly set	▶ Set the heat curve for the heating installation correctly.
	Maximum flow temperature incorrectly set	▶ Set the maximum flow temperature correctly on the boiler.
The installation assistant is not displayed during start-up	Control not set correctly	▶ Reset the control to the factory settings.

B.2 Radio control troubleshooting

The settings are saved in the control and in the radio receiver.

If the radio receiver is not connected to the boiler, the boiler uses the boiler's internal settings.

Symptom	Possible cause	Measure
Control display is empty	Control in standby mode	▶ Press any button.
	The power supply has been disconnected	<ol style="list-style-type: none"> 1. Check whether the boiler is connected correctly. 2. Check whether the batteries in the control have been inserted correctly. 3. Replace dead batteries.
The room temperature does not reach the programmed temperature	Thermostatic valves not fully open	▶ Fully open all of the radiator thermostatic valves for the room in which the control is installed.
The room temperature exceeds the programmed temperature	Temperature control function is deactivated	▶ Activate the temperature control function.
	Heat curve incorrectly set	▶ Set the heat curve for the heating installation correctly.
	Maximum flow temperature incorrectly set	▶ Set the maximum flow temperature correctly on the boiler.

Symptom	Possible cause	Measure
The installation assistant is not displayed during start-up	Control not set correctly	▶ Reset the control to the factory settings.

B.3 Troubleshooting for the radio receiver

Symptom	Possible cause	Measure
Neither the green LED nor the red LED lights up	The power supply is interrupted	▶ Check the power supply to the boiler.
	eBUS connection cable defective	▶ Check the cable connection between the boiler and the radio receiver.
Red LED lights up	The power supply is interrupted	▶ Check the power supply to the boiler.
	eBUS connection cable defective	▶ Check the cable connection between the boiler and the radio receiver.
	Fault in the boiler	▶ Check that the boiler is working correctly.
	Fault when transmitting the radio signal	1. Check whether the batteries in the control have been inserted correctly. 2. Replace dead batteries. 3. Check the electrical connections between the radio receiver and the boiler.
	eBUS communication error	▶ Check the communication between the control and the receiver.
	Radio receiver or control defective	▶ Replace the defective component.

C Technical data

Technical data – Control

	Climapro ₁	Climapro ₁ RF
Max. environmental temperature	60 °C	60 °C
Static differential	± 0.3 °C	± 0.3 °C
Max. domestic hot water temperature	65 °C	65 °C
IP rating	IP 20	IP 20
Protection class	2	2
Pollution degree	2	2
Mode of operation	Type 1	Type 1
Unit dimensions, height	97 mm	115 mm
Unit dimensions, width	146.5 mm	146.5 mm
Unit dimensions, depth	35 mm	41 mm
eBUS operating voltage	24 V	–
Rated surge voltage	330 V	330 V
Connection cable conductor cross-section	2 x 0.75 mm ²	–
Max. length of the connection cable	300 m	–
Sending/receiving frequency	–	868 MHz
Transmitter/receiver interval with radio outdoor temperature sensor	–	15 min

	Climapro₁	Climapro₁ RF
Transmitter/receiver interval with radio receiver in the boiler	-	10 min
Max. radio range outdoors (depending on the installation conditions)	-	100 m
Average radio range in the building (depending on the installation conditions)	-	25 m

Technical data – Radio receiver for Exacontrol E7R

	Radio receiver
Max. environmental temperature	60 °C
eBUS operating voltage	24 V
Rated surge voltage	330 V
Pollution degree	2
Mode of operation	Type 1
Connection cable conductor cross-section	2 x 0.75 mm ²
Max. length of the connection cable	300 m
Boiler dimensions, height	20 mm
Boiler dimensions, width	171 mm
Boiler dimensions, depth	58 mm

Supplier

Vaillant Group UK LTD

Nottingham Road ■ Belper-Derbyshire ■ DE56 1JQ

Telephone 01773 824639 ■ Technical helpline 0330 100 7679

After sales service 0330 100 3142

www.glow-worm.co.uk



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