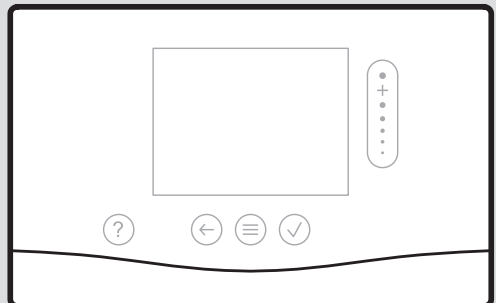


VR 92f/3




Operating and installation
instructions



en	Operating and installation instructions	3
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Operating and installation 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 signs 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 enables a zone to be controlled remotely via an eBUS interface.

The following components are required for operation:

– VRC 720f

FM5 functional module

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.

This product 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 given supervision or instruction concerning use of the product in a safe way and understand the hazards involved. Children must not play with the product. Cleaning and user maintenance work must not be carried out by children unless they are supervised.

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 Qualification

Work and functions that must only be carried out or set by the competent person are marked by the  symbol.

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

- Set-up
- Dismantling
- Installation
- Start-up
- Decommissioning
- ▶ Proceed in accordance with current technology.

1.3.2 Batteries


- ▶ Note the battery type, as described in these instructions; see section "Scope of delivery".
- ▶ Remove and insert batteries as described in these instructions; see section "Changing the batteries".


- ▶ Do not recharge non-rechargeable batteries.
- ▶ Remove rechargeable batteries from the product before charging them.
- ▶ Do not combine batteries with other battery types.
- ▶ Do not combine new and used batteries.
- ▶ Insert the batteries, making sure that the poles are the right way round.
- ▶ Remove the dead batteries from the product and dispose of them correctly.
- ▶ Remove the batteries if you intend to store the product and not use it for an extended period and/or to scrap it.
- ▶ Do not short-circuit the connection contacts in the product's battery compartment.

1.3.3 Danger caused by improper operation

Improper operation may present a danger to you and others, and cause material damage.

- ▶ Carefully read the enclosed instructions and all other applicable documents, particularly the "Safety" section and the warnings.
- ▶ As the end user, you should only carry out those activities for which these instructions provide instructions and that



are not marked with the  symbol.

1.4 -- Safety/regulations

1.4.1 Risk of material damage caused by frost

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

1.4.2 Regulations (directives, laws, standards)

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

2 Product description

2.1 Which nomenclature is used?

- Remote control: Instead of VR 92f
- System control: Instead of VRC 720f
- FM5 or FM5 functional module: Instead of VR 71

2.2 What do the following temperatures mean?

Desired temp. is the temperature to which you want to heat or cool the living rooms.

Set-back temp. is the level below which the temperature in the living rooms does not fall when outside of the time periods.

2.3 What is a zone?

A building can be divided into multiple areas, which are known as zones. A different requirement can be placed on the heating installation in each zone.

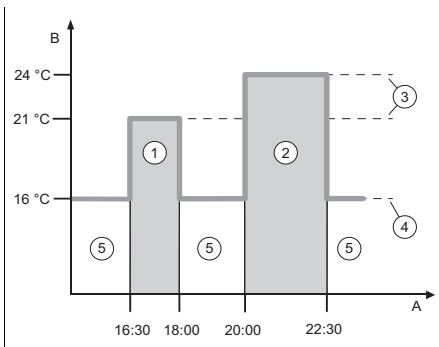
Examples for dividing into zones:

- Underfloor heating (zone 1) and a radiator system (zone 2) are available in one building.
- A building is made up of several self-contained residential units. Each residential unit has its own zone.

2.4 What is meant by "time period"?

Example of heating mode in the mode:

Time-controlled



A Time

B Temperature

- | | | | |
|---|---------------------|---|-----------------------------|
| 1 | Time period 1 | 4 | Set-back temperature |
| 2 | Time period 2 | 5 | Outside of the time periods |
| 3 | Desired temperature | | |

You can divide a day up into several time periods (1) and (2). Each time period can comprise an individual start time and end time. The time periods must not overlap. You can assign a different desired temperature (3) to each time period.

Example:

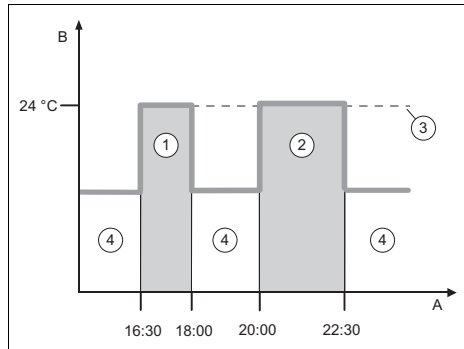
16:30 to 18:00; 21 °C

20:00 to 22:30; 24 °C

The living rooms are heated to the desired temperature within the time periods. In the times outside of the time periods (5), the living rooms are heated to the lower set-back temperature (4) that is set.

Example of cooling mode in the mode:

Time-controlled



- | | | | |
|---|---------------|---|-----------------------------|
| A | Time | 3 | Desired temperature |
| B | Temperature | 4 | Outside of the time periods |
| 1 | Time period 1 | | |
| 2 | Time period 2 | | |

You can divide a day up into several time periods (1) and (2). Each time period can comprise an individual start time and end time. The time periods must not overlap. You can set a desired temperature (3) that is assigned to all time periods.

Example:

16:30 to 18:00; 24 °C

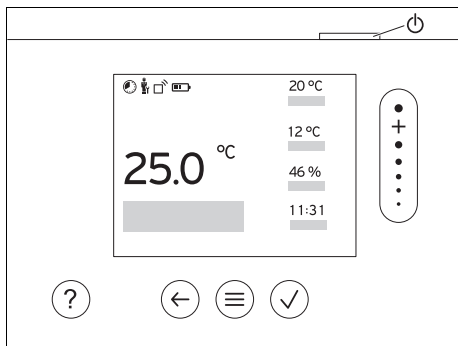
20:00 to 22:30; 24 °C


The living rooms are cooled to the desired temperature within the time periods. During the times outside of the time periods (4), the living rooms are not cooled.


2.5 Preventing malfunctions

- ▶ Do not cover the remote control with furniture, curtains or other objects.
- ▶ Ensure that all thermostatic radiator valves in the room where the remote control is installed are fully open.








2.6 Display, control elements and symbols





Press  once: You access the basic display.



Press  twice: You access the menu.



2.6.2 Symbols




	Battery state of charge
	Signal strength
	Time-controlled heating active
	Button lock active
	Maintenance required
	Fault in the heating installation
	Contact the competent person



2.6.1 Control elements



-  – Calling up the menu
-  – Back to the main menu

-  – Confirming a selection/change
-  – Saving set values

-  – One level back
-  – Cancelling input

-  – Navigating through the menu structure
-  – Reducing or increasing the set value
-  – Navigating to individual numbers/letters


-  – Calling up help
-  – Calling up the time programme assistant

-  – Switching on the display
-  – Switching off the display

The control element is located on the upper side of the control.

Active control elements light up green.

2.7 Operating and display functions

To call up the menu, press  twice.

2.7.1 Menu item CONTROL

MENU

CONTROL	
Zone	
Heating	
Mode:	
Manual	Uninterrupted retention of the desired temperature
Desired temperature: °C	What do the different temperatures mean? (→ Section 2.2)
Time-contr.	What is meant by "time period"? (→ Section 2.4)
Weekly planner	Up to 12 time periods and desired temperatures can be set per day. The Desired temperature: °C applies within the time periods. The competent person sets how the heating installation behaves outside of the time period in the Set-back mode: function . In Set-back mode: means : <ul style="list-style-type: none"> – Eco: The heating is switched off outside of the time periods. Frost protection is activated. – Normal: The set-back temperature applies outside of the time periods.
Desired temperature: °C	What do the different temperatures mean? (→ Section 2.2)
Set-back temperature: °C	What do the different temperatures mean? (→ Section 2.2)
Off	Heating is switched off, domestic hot water continues to be available, frost protection is activated
Cooling	
Mode:	
Manual	Uninterrupted retention of the desired temperature
Desired temperature: °C	What do the different temperatures mean? (→ Section 2.2)
Time-contr.	What is meant by "time period"? (→ Section 2.4)
Weekly planner	Up to twelve time periods can be set per day. The Desired temperature: °C applies within the time periods. Cooling is switched off outside of the time periods.

		Desired temperature: °C	What do the different temperatures mean? (→ Section 2.2)
		Off	Cooling is switched off, domestic hot water remains available.
		Name of zone	Changing the name Zone 1 , which was set at the factory
		Absence	During this time, heating mode runs at the defined set-back temperature. Factory setting: Set-back temperature: °C 15 °C
		Zone	Applies for the selected zone in the specified time period.
		Ventilation boost	Heating mode is interrupted for 30 minutes.
		Time programme assistant	Programming the desired temperature for Monday–Friday and Saturday–Sunday. The programming applies for the time-controlled functions Heating and Cooling . The time programme assistant overwrites the weekly planner for the Heating and Cooling functions.


2.7.2 Menu item INFORMATION

MENU

INFORMATION			
		Current temperatures	
		Zone	Current room temperature in the zone
		Current room air humidity	Current room air humidity, measured using the installed humidity sensor
		Control elements	Explanation of the control elements
		Menu introduction	Explanation of the menu structure
		Competent person contact info	The competent person can store their telephone number.
		Phone number	
		Company	
		Serial number	Identification of the product. The 7th to 16th digits of the serial number form the article number

2.7.3 Menu item SETTINGS

MENU

SETTINGS			
		Installer level	
		Enter access code	Access to the installer level, factory setting: 00 If the access code is unknown, reset the remote control to the factory setting.
		Fault history	Faults are listed in chronological order

Remote control address:	Each remote control has a unique address, starting with Address 1. For each additional remote control, the address increases continuously.
System control reception strength	Reception strength between the radio receiver unit and product <ul style="list-style-type: none"> – 4: The radio link is within the acceptable range. If the reception strength is < 4, the radio link is not stable. – 10: The radio link is highly stable.
Software version	
Change code	Defining an individual access code for the installer level
Language, display	
Language:	Defining the language that is to be shown on the display.
Display brightness:	Brightness during active use.
Offset	
Room temperature: K	Comparison of the temperature difference between the measured value in the system control and the value for a reference thermometer in the living room.
Factory settings	The remote control resets all of the settings to the factory settings and calls up the installation assistant. Only the competent person can operate the installation assistant.

3 -- Start-up and set-up

3.1 Checking the scope of delivery

Quantity	Contents
1	Radio remote control
1	Fixing material (2 screws and 2 wall plugs)
4	Batteries, LR06
1	Documentation

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

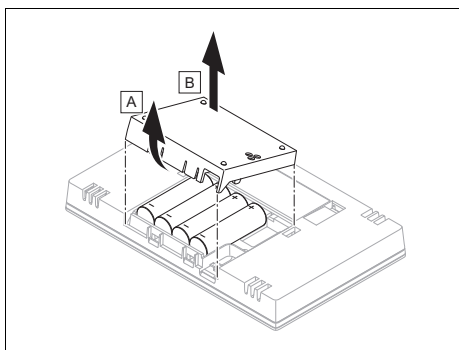
3.2 Requirements for start-up

To start up the product, the following prerequisites are required:

- All of the system components, the system control and the radio receiver unit have been installed and set up.
- The power supply for the entire heating installation is switched on.
- The system components are switched on.
- The individual installation assistants for the different system components have been completed successfully.

3.3 Inserting batteries into the product

1. Stand next to the radio receiver unit with the product.



2. Open the battery compartment.



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.

3. Insert the batteries in the battery compartment, making sure that the poles are the right way round.
 - ◁ The installation assistant starts.
4. Close the battery compartment.

3.4 Installing and setting up the product

The installation assistant starts automatically as soon as the product is supplied with voltage.

The installation assistant guides you through the required functions. For each function, you should choose the set value that is best suited to the heating installation being installed.

- ▶ If **Pair** is shown in the display, press the button on the radio receiver unit.
 - ◁ The LED on the radio receiver unit flashes green.
- ▶ To check the reception strength on the chosen installation site, proceed as follows:
 - ▶ Take the remote control to the chosen installation site for the product.
 - ▶ Close all doors behind you on the way to the installation site.
- ▶ If the display is off, press  on the upper side of the product in order to activate the display.

- ▶ At chosen installation site, check the reception strength in the product's display.

Condition: The display shows **Radio communication interrupted**

- Ensure that the radio receiver unit is being supplied with electricity.

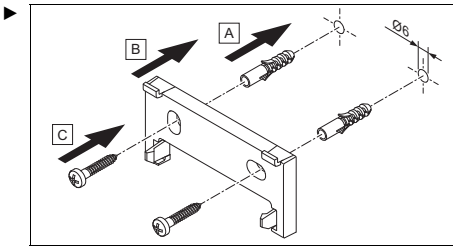
Condition: System control reception strength < 4

- Select a different installation site; one with a reception strength of ≥ 4 .

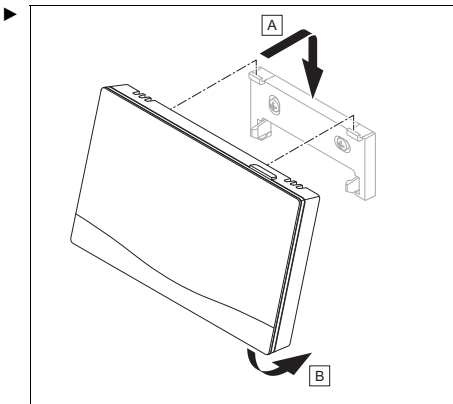
Condition: System control reception strength ≥ 4

- The installation site is suitable for installing the product.

- ▶ Ensure that the installation site is not exposed to any draughts, direct solar radiation or other heat sources (e.g. radiators, TVs) and that the product is not covered by furniture, curtains or other objects.



Install the unit mounting bracket at a height of approx. 1.30 m.



Fit the product onto the unit mounting bracket.

◁ The product clicks into place.

Once you have gone through the installation assistant, **You have completed the installation assistant!** appears on the display

3.5 Configuring the settings on the system control

1. In the **Room temp. mod.:** function, select the value **Active** or **Expanded** if you want to use the remote control's room temperature sensor.
2. Specify the zone in which the remote control has been installed.
3. Scroll through the display to the zone in which the remote control has been installed.
4. In the **Zone assignment:** function in this zone, assign the address for the remote control that should be triggered.

3.6 Changing the settings later

All settings that you have made via the installation assistant can be changed again at a later date via the end user or installer level.

4 Maintenance

4.1 Changing batteries



Danger!

Risk of death caused by unsuitable batteries!

If batteries – whether re-chargeable or non-re-chargeable – 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.

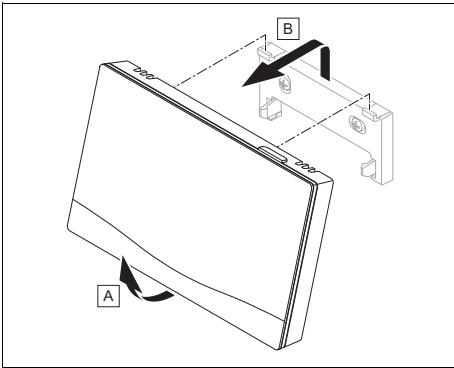


Warning.

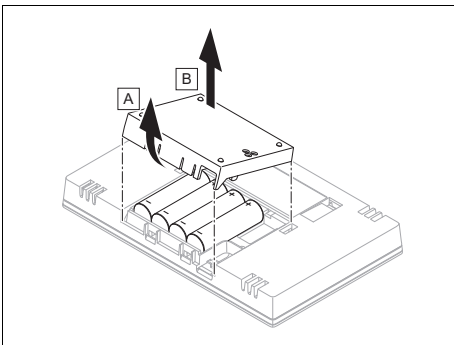
Risk of chemical burns caused by leaking batteries!

Corrosive battery fluid may leak out of used batteries.

- ▶ Remove any used batteries from the product as soon as possible.
- ▶ Before extended periods away from home, also remove batteries that are still charged from the product.
- ▶ Avoid skin or eye contact with leaking battery fluid.

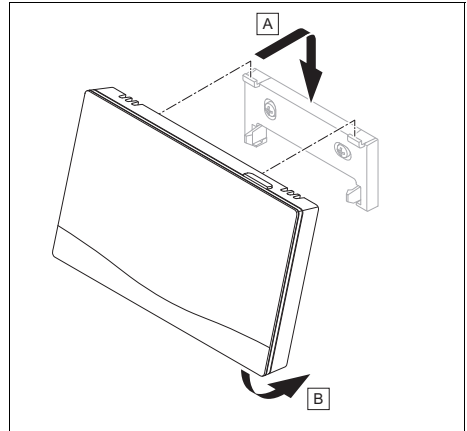


1. Take the product out of the unit mounting bracket.



2. Open the battery compartment.
3. Remove the batteries.


4. Insert new batteries in the battery compartment, making sure that the poles are the right way round.
 - Only use LR06 batteries
 - Do not use rechargeable batteries
 - Do not combine the batteries with other battery types
 - Do not combine new and used batteries
5. Do not short-circuit the connection contacts.
6. Close the battery compartment.



7. Fit the product onto the unit mounting bracket.
 - The product clicks into place.

5 Fault and maintenance messages

5.1 Fault messages

 with the text of the fault message appears in the display.

You can find fault messages under: **MENU** → **SETTINGS** → **Installer level** → **Fault history**

Troubleshooting (→ **sensoCOMFORT** operating and installation instructions, appendix)

5.2 Maintenance messages



With the text of the maintenance message appears in the display.

Maintenance message for the end user (→ Appendix)

Maintenance message for the competent person (→ **sensoCOMFORT** operating and installation instructions, appendix)

6 Information about the product

6.1 Observing and storing other applicable documents

- ▶ Observe all of the instructions that are intended for you and are enclosed with the components of the installation.
- ▶ As the end user, keep these instructions and all other applicable documents safe for future use.


6.2 Validity of the instructions

These instructions apply to products with the following article numbers:

- 0020260940

6.3 Data plate

The data plate is located on the rear of the product.

Data plate	Meaning
Serial number	for identification; 7th to 16th digits = product article number
VR 92f	Product designation
V	Rated voltage
mA	Rated current
	Read the instructions

6.4 Serial number

You can call up the serial numbers under **MENU** → **INFORMATION** → **Serial number**. The 10-digit article number is located in the second line.

6.5 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/>.

6.6 Guarantee and customer service

6.6.1 Guarantee

You can find information about the manufacturer's guarantee in the Country specifics.

6.6.2 Customer service

The contact details for our customer service are provided on the back page or on our website.

6.7 Recycling and disposal

Packaging

- ▶ Dispose of the packaging correctly.

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 equip-

ment. Correctly disposing of old units protects 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.







6.8 Technical data

Battery type	LR06
Rated surge voltage	330 V
Frequency band	868.0 to 868.6 MHz
Max. transmission power	< 25 mW
Range outdoors	≤ 100 m
Range indoors	≤ 25 m
Pollution degree	2
IP rating	IP 20
Protection class	III
Temperature for the ball pressure test	75 °C
Maximum permitted environmental temperature	0 to 45 °C
Current room air hum.	35 to 95 %
Mode of operation	Type 1
Height	109 mm
Width	175 mm
Depth	26 mm


Appendix

A Troubleshooting, maintenance message

A.1 Troubleshooting

Symptom	Possible cause	Measure
Display remains dark	The batteries are flat	<ol style="list-style-type: none"> 1. Change all the batteries. (→ Section 4.1) 2. If the fault persists, inform the competent person.
No changes in the display can be made via the control elements	The batteries of the remote control have not been inserted correctly	▶ Insert the batteries in the battery compartment, making sure that the poles are the right way round.
Display: You do not understand the set language	Incorrect language set	<ol style="list-style-type: none"> 1. Press  twice. 2. Select the last menu item ( SETTINGS) and confirm by pressing . 3. Under  SETTINGS, select the second menu item and confirm by pressing . 4. Select the language that you understand and confirm by pressing .

A.2 Maintenance messages

#	Code/meaning	Description	Maintenance work	Interval	
1	Water deficiency: Follow the instructions in the heat gen.	The water pressure is too low in the heating installation.	Refer to the operating instructions for the relevant heat generator for information on filling with water	See the operating instructions for the heat generator	

B -- Troubleshooting, maintenance message

B.1 Troubleshooting

Symptom	Possible cause	Measure
It is not possible to switch to the installer level	You do not know the code for the installer level	▶ Reset the remote control to the factory setting. All set values will be lost.

B.2 Troubleshooting

Code/meaning	Possible cause	Measure
Remote control 1 communication interrupted F.1192	Incorrect plug connection	▶ Check the plug connection.
	The cable is defective	▶ Replace the cable.

Troubleshooting for additional fault messages (→ **sensocomfort** operating and installation instructions, appendix)

B.3 Maintenance messages

Maintenance messages (→ **sensocomfort** operating and installation instructions, appendix)