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1 Safety

1.1 Intended use

In the event of inappropriate or improper use, damage to the product and other property may arise. The room temperature control is designed to control a heating installation with eBUS interface according to the room temperature.

Validity: End user

Intended use includes the following:

- observance of the operating instructions included for the product and any other installation components

Validity: Competent person

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

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

Validity: End user

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.

Validity: End user + Competent person

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.

1.2 General safety information

Validity: End user

1.2.1 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.
- > Only carry out the activities for which instructions are provided in these operating instructions.

Validity: Competent person

1.2.2 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.

1.2.3 Risk of material damage caused by using an unsuitable tool

- > Use the correct tool.

1.3 Regulations (directives, laws, standards)

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

2 Notes on the documentation

2.1 Observing other applicable documents

- > You must observe all operating instructions enclosed with the system components.

2.2 Storing documents

- > Keep this manual and all other applicable documents safe for future use.

2.3 Validity of the instructions

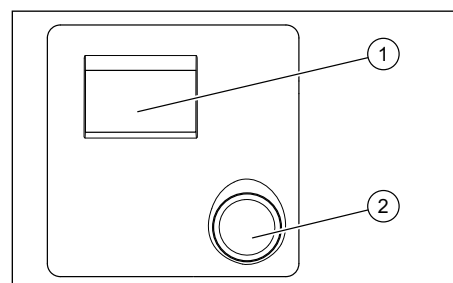
These instructions apply only to:

Product	Article number
sensoRoom pure	0010038663

3 Product description

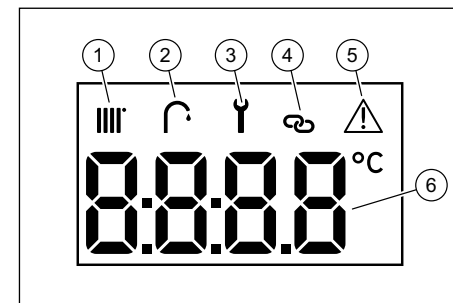
The product is a room temperature control.

3.1 Product design



- 1 Display
- 2 Rotary knob

3.2 Display



- 1 Boiler in heating mode
- 2 Boiler in domestic hot water mode
- 3 Boiler maintenance required
- 4 Control connected to gateway (only in the control type for the remote control)
- 5 Fault in the boiler
- 6 Current room temperature

3.3 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 declaration of conformity can be viewed at the manufacturer's site.

4 Operation

4.1 Operating concept

You use the rotary knob to operate the product.

- > Turn the rotary knob anti-clockwise or clockwise to decrease or increase the value, or to set parameters.
- > Press the rotary knob to access a setting or to confirm a setting.

4.2 Operating and display functions

The current room temperature is displayed in the basic display.

4.2.1 Setting the target room temperature

Condition: The product is set to the control type for room temperature control.

- > Turn the rotary knob.
 - ← ||||| is displayed.
 - ← The set target room temperature flashes on the display.
- > Turn the rotary knob to set the required target room temperature.
- > Press the rotary knob to confirm the setting, or wait for three seconds until the change is automatically applied.
 - ← The display shows the changed target room temperature for three seconds.
 - ← The display switches to the basic display.

Condition: The product is set to the control type for remote control, The system control allows the temperature to be changed

- > Turn the rotary knob.
 - ← ||||| is displayed.
 - ← The current target room temperature flashes on the display.

- > Turn the rotary knob to set the required target room temperature.
- > Press the rotary knob to confirm the setting, or wait for three seconds until the change is automatically applied.
 - ← The display shows the changed target room temperature for three seconds.
 - ← The display switches to the basic display.

Note

If a time programme is active, the target room temperature is only changed temporarily, depending on the system control specifications.

Condition: The product is set to the control type for remote control, The system control does not allow the temperature to be changed.

- > Turn the rotary knob.
 - ← ||||| is displayed.
 - ← If the heating mode is activated, the target room temperature specified by the system control is shown on the display for three seconds.
 - The target room temperature cannot be changed via the product.
 - ← If the heating mode is deactivated by the system control, off is then shown on the display for three seconds.
 - The target room temperature cannot be changed via the product.
 - ← The display switches to the basic display.

4.2.2 Switching the boiler's warm start on/off

Note

In the control type for remote control, the warm start can only be controlled via the communication unit or the control for the boiler.

Condition: The product is set to the control type for room temperature control, The boiler has the warm start comfort function, The warm start comfort function is activated on the product.

- > Press the rotary knob.
 - ← C is displayed and off (warm start switched off = factory setting) or on (switched on) flashes in the display.
- > Turn the rotary knob clockwise or anti-clockwise to switch the boiler warm start on or off.
 - ← on or off flashes in the display.
- > Press the rotary knob to confirm the setting, or wait for three seconds until the change is automatically applied.
 - ← The display shows the changed values for three seconds.
 - ← The display switches to the basic display.

4.2.3 Frost protection

Note

The frost protection function is only active if the boiler is operating.

The frost protection function activates the boiler if the environmental temperature in the room in which the product is installed falls below 5 °C.

- > For a longer period away from home, observe the information on frost protection in the boiler's operating instructions.

4.3 Troubleshooting

In the event of faults, the corresponding fault messages are shown in the display.

Fault	Cause	Measure
Display is switched off.	Power supply has been disconnected.	Check the boiler's power supply.

Faults in the control type for the room temperature control

The required room temperature has not been reached.	The thermostatic valves on the heating element are not set correctly.	Turn the thermostatic valves on the radiators until they are fully open.
The required room temperature has not been reached.	Internal time period in the boiler does not permit heating mode.	Check the time periods in the boiler.
The required room temperature is exceeded.	Heat curve or flow temperature has been set incorrectly.	Consult a competent person.
The boiler display does not show any symbol indicating that a control is connected.	Normal behaviour for some system configurations.	No measure required.
Heating mode is active even though this has been deactivated on the boiler.	Heating mode can only be activated/ deactivated via the product.	To deactivate the heating mode, set the lowest target room temperature on the product.
△ flashes.	Fault in the boiler.	In the boiler's operating instructions, check whether you can eliminate the fault yourself or contact a competent person.
△ flashes and Err is shown in the display.	Fault in the eBUS connection to the boiler.	Consult a competent person.

Fault	Cause	Measure
Faults in the control type for the remote control		
⚠ and ⚡ and flash.	Communication fault between the control and the gateway.	Ensure that the gateway is operating. Otherwise, contact a competent person.

4.4 Caring for the product

- Clean the casing with a damp cloth and a little solventfree soap.
- Do not use sprays, scouring agents, detergents, solvents or cleaning agents that contain chlorine.

4.5 Decommissioning

- Have a competent person decommission the product.

4.6 Recycling and disposal

- The competent person who installed your product is responsible for the disposal of the packaging.



■ If the product is labelled with this mark:

- 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.

4.7 Guarantee and customer service

4.7.1 Guarantee

You can request information on the manufacturer's guarantee from the contact address provided on the back page of this document.

4.7.2 Customer service

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

5 For the competent person

The product must be installed by a qualified competent person while complying with the existing regulations, rules and directives.

5.1 Notes on the documentation

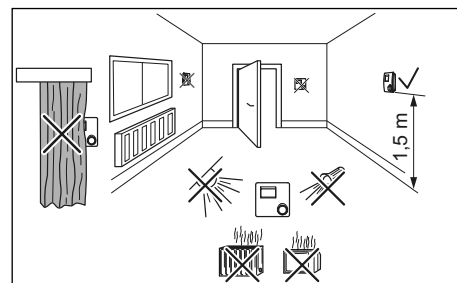
5.1.1 Observing other applicable documents

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

5.1.2 Storing documents

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

5.2 Requirements for the installation site



- Install the product as shown.

5.3 Set-up

5.3.1 Opening the housing

- On the underside of the product, carefully push the latching lug inwards.
 - Flat-blade screwdriver
- Swivel the front half of the housing upwards.
- Remove the front half of the housing upwards from the rear half of the housing.

5.3.2 Mounting the product on the wall

- Open the housing.
- Position the rear half of the housing on the wall.
- Mark the position of the two drill holes through the two mounting holes.
- Drill the holes for the fixing screws.
- Install the product's electrics. (→ Chapter 5.4.1)
- Secure the rear half of the housing to the wall using suitable wall plugs and screws.
- Secure the front half of the housing to the rear half of the housing in such a way that the latching lug audibly clicks onto the underside of the product.

5.4 Installation

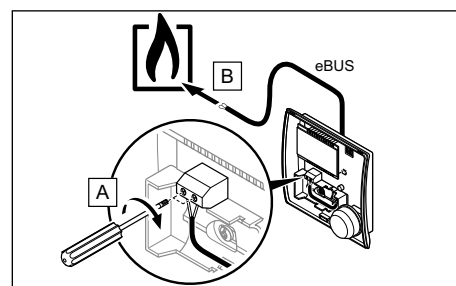
5.4.1 Electrical installation



Note

- Only qualified electricians may carry out the electrical installation.
- The maximum length of the eBUS cable is 125 m
- Connection cables with 230 V and eBUS cables must be routed separately as of a length of 10 m.
- The jumper between terminals RT and 24V on the plug for the boiler's PCB must not be removed.

- Switch off the power supply to the connected boiler.
- Check that the boiler is voltage-free.



- Connect an eBUS cable to the product's eBUS connection.
- Connect the eBUS cable to the eBUS connection for the control on the boiler (→ Instructions for the boiler).
- Re-establish the power supply to the connected boiler.

5.5 Start-up

- Switch the boiler on.
- Open all of the radiator valves in the room in which the room temperature control is located.

5.5.1 Setting the control type and parameter



Note

The product is set to the control type for room temperature control at the factory and, in this setting, several operating parameters of the heating system can be set. There is an option to configure the product as a remote control if a compatible system control or a communication unit takes on the control function.

- Press and hold the rotary knob for at least 10 seconds to open the installation menu.
 - ← Υ is displayed.
 - ← You are requested to enter the installer access code.
- Turn the rotary knob until 00 is shown in the display.
- Press the rotary knob to confirm the entry.
- Turn the rotary knob to set the required control type for the product:

- Ct: Room temperature control (factory setting)
- r1...r8: Remote control (only possible in conjunction with a compatible system control/with a communication unit)
- Press the rotary knob to confirm the setting.

Condition: The product is set to the control type for room temperature control

- Turn the rotary knob to activate or deactivate the product's warm start comfort function.
 - The warm start comfort function must be activated before you can switch the boiler warm start on or off on the product (→ Chapter 4.2.2).
 - ← off (warm start comfort function deactivated = factory setting) or on (activated) flashes in the display.
- Press the rotary knob to confirm the setting.
- Turn the rotary knob to define the lowest target room temperature that can be set (5–30 °C).
 - The product activates the boiler if the room temperature falls below the set value.
 - ← The value that is currently set (factory setting: 15 °C) is shown in the display.
- Turn the rotary knob to change the value.
- Press the rotary knob to confirm the setting.

Condition: The control type (room temperature control/remote control) was not previously changed.

← The basic display is shown.

Condition: The control type (room temperature control/remote control) was previously changed.

← rSEt is shown in the display.
- If rSEt is shown in the display, restart the boiler.

5.5.2 Checking the operation

- Check that the installation is operating correctly.
- Check all of the control and safety elements, along with their settings and operating mode.

5.5.3 Handing the product over to the end user

- Inform the end user how to handle the product. Answer any questions the end user may have.
- Point out to the end user that all of the radiator thermostats in the product's installation room must always be fully open.
- Pass all of the instructions and documentation for the product to the end user for safe-keeping.

6 Technical data

	VRT 50/2
Product dimensions, height	97 mm
Product dimensions, width	97 mm
Product dimensions, depth	31 mm
Maximum permitted environmental temperature	50 °C
Temperature for the ball pressure test	75 °C
Power consumption	240 mW
Rated voltage	24 V _{DC} ±10%
Rated surge voltage	330 V
Rated current	< 50 mA
Pollution degree	2
Connection cables, min. cross-section	2 x 0,75 ... 1,5 mm ²
Protection class	III
IP rating	IP 20
Control class in accordance with ErP	V
Contribution to the seasonal room-heating energy efficiency η_s	3.0 %