Energy-efficient heating using the RVD25... district heating controller

en Operating instructions

Switch on heating



- Is the heating system ready for operation? Check the main power switch.
- 2. Check both date and time.
- 3. Press Auto (1) for automatic mode.

Set date and time				
	Press	Display	Press	to adjust date and time
	D			

Press	Display	Press	to adjust date and time
Prog	13		Time of day
Prog	7		Weekday (1 = Monday, 2 = Tuesday, etc.)
Prog	15	Δ,	Date (e.g. 02.12 for December 2)
Prog	15	Δ,	Year

Heat while in automatic mode

Meaning of information displayed



(1)

Automatic mode controls the room temperature as per the entered heating program.

• Press Auto (button is lit).

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Bar lit below	Meaning
°C	Maintain nominal room temperature (setting knob used for setting)
C	Maintain reduced room temperature
Display	Meaning
☺	Maintain frost protection temperature
ECO	No heating required at this time based on outside air temperature or the set heating period
ر or ا	Limitation active
BUS	Controller connected to data bus

Solar d.h.w. heating

Heat continuously



Continuous mode maintains a constant temperature set via the setting knob.

- 1. Press

 ∅ (button is lit).
- 2. Use setting knob to enter the desired room temperature.

Unspecified absence



Set the plant to protection mode. Heating is off, but the system is protected against frost.

• Press (button is lit).

Provide domestic hot water



Set the desired temperatures:

Press	Display	Press	to adjust the desired temperature
Prog	4!	Δ. Ω.	Normal d.h.w. temperature
Prog	42	Λ Ω,	Reduced d.h.w. temperature

There are two ways to provide d.h.w.:

- 1. Provide d.h.w. using a scheduler program.
- 2. Provide domestic hot water immediately.
 - Press for 3 seconds (button is flashing for 3 seconds for confirmation).

D.h.w. is provided via solar panel if your system is set up accordingly. Symbol $^{3\!\!\!\!/}$ indicates solar d.h.w. heating.

Set room temperatures



- Use the setting knob to set the desired nominal room temperature. The setting is active:
 - In automatic mode during the heating periods entered in the heating program.
 - · Always in continuous mode.

3 BoltSIEMENS Bolt

2. Use the buttons to set the remaining temperatures as well as the heating curve:

Press	Display	Press	to adjust the desired temperature
Prog	1	Non- adjustable	Display of current temperature setpoint
Prog	2	₊Ω '∇	Reduced room temperature
Prog		.Ω Ω,	Room temperature for holidays/frost protection
Prog	5	Δ,	Heating curve slope

Adjust room temperature (up or down)



Primarily for mild weather:

Use the setting knob to adjust the room temperature.

Primarily for cold weather:

Adjust the heating curve slope on operating line 5.

- Room temperature too high: Reduce slope by ca. 0.05.
- Room temperature too low: Raise slope by ca. 0.05.

Primarily at night:

Adjust the reduced room temperature on operating line \overline{c}

Wait for two days after each adjustment to allow the controlled system to adapt!

Read temperatures



Press	Display	to read the temperature in °C	
Prog	24	Room temperature	
Prog	25	Outside air temperature	
Prog	26	Domestic hot water temperature	
Prog	27	Heating circuit flow temperature	

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Change heating periods



1. Select the weekday to change heating periods:

			J J
Press	Display	Press	to adjust the day or the
			entire week
Prog	5		1 = Monday 2 = Tuesday, etc.
• —			1-7 = Entire week

2. Enter the desired times for the heating periods for the selected day:

Press	Display	Press	to adjust beginning and end of the heating periods
Prog	7	Δ.	Start of 1 st heating period
Prog	8	Δ.	End of 1 st heating period
Prog	9	Δ.	Start of 2 nd heating period
Prog	10	Δ.	End of 2 nd heating period
Prog	11	Δ.	Start of 3 rd heating period
Prog	12	Δ.	End of 3 rd heating period

Change the d.h.w. scheduler program



Your controller has a second scheduler program. You can change it on operating lines Π to \mathbb{Z} if assigned to d.h.w. provisioning:

 Select the weekday to change d.h.w. scheduler program:

Press	Display	to adjust the day or the entire week
Prog	-	1 = Monday 2 = Tuesday, etc. 1-7 = Entire week

2. Enter the desired times to activate d.h.w. provisioning for the selected day:

Press	Display	Press	to adjust beginning and end of the activation periods
Prog	18	Δ.	Start of 1 st period
Prog	19	Δ.	End of 1 st period
Prog	20	Δ.	Start of 2 nd period
Prog	21	Δ.	End of 2 nd period
Prog	22	Λ. Ω.	Start of 3 rd period
Prog	23	Δ <u>-</u>	End of 3 rd period

Domestic hot water is heated to the normal temperature (see "Provide domestic hot water", operating line \(\frac{\pmathbf{I}}{1} \) during activation periods. Between periods, d.h.w. is heated to a reduced temperature (operating line \(\frac{\pmathbf{I}}{2} \)).

Plan holidays



You can enter data for max. 8 holiday periods per year:

Press | Display | Press | to select the holiday

	7 7000	Display	7 7033	number and associated data
	Prog	3	□ □	1 for the 1st holiday period of the current year
	Prog	32	Δ. Ω.	Date of first day of holiday for the 1st holiday period
	Prog	33	- †	Date of last day of holiday for the 1st holiday period
	Prog	3!	- Ω	2 for the 2nd holiday period of the current year
	etc.	etc.	etc.	etc.

No d.h.w. is provided if a holiday period is active.

Heating system not working properly



- Is your system turned on?
- · Are all fuses ok in the system?
- Did you change controller settings?
- Flashing operating mode button? If yes, the room unit is overriding the controller mode.
- Valve disengaged from actuator? If yes, re-engage.
- Operating line 50 displays the error number if an error for is displayed. Contact your local heating engineer for more information.

Troubleshoot control failure



Heating control no longer works as intended:

- 1. Press (manual mode, LED is lit).
- Press ¬ → to manually adjust the heat supply via the heating circuit valve.

Contact your heating engineer:

Tips to save energy



- . Heat rooms to max. 21 °C during the day.
- · Air out briefly, but fully open windows to air out.
- Set thermostatic radiator valves to "Frost protection" when rooms are not used.
- No curtains, furniture, etc. in front of radiators.
- · Close window shutters, blinds, etc. at night.
- Regularly check your heating energy consumption.