Energy-efficient heating using the RVD25… district heating controller

en Operating instructions

Switch on heating ⏱

1. Is the heating system ready for operation? Check the main power switch.
2. Check both date and time.
3. Press ^{Auto}⏱ for automatic mode.

Set date and time 🕐

Press	Display	Press	… to adjust date and time
Prog ▽△	13	− + ◁▷	Time of day
Prog ▽△	14	Non-adjustable	Weekday (**1** = Monday, **2** = Tuesday, etc.)
Prog ▽△	15	− + ◁▷	Date (e.g. **02.12** for December 2)
Prog ▽△	16	− + ◁▷	Year

Heat while in automatic mode 🕐

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

• Press ^{Auto}⏱ (button is lit).

Meaning of information displayed ⓘ

Bar lit below …	Meaning
°C	Maintain nominal room temperature (setting knob used for setting)
☾	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
⌈ or ⌋	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 ▽△	41	− + ◁▷	Normal d.h.w. temperature
Prog ▽△	42	− + ◁▷	Reduced d.h.w. temperature

There are two ways to provide d.h.w.:
1. Provide d.h.w. using a scheduler program.
   • Press 🚿 (button is lit). D.h.w. is provided as scheduled.
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 ☼ indicates solar d.h.w. heating.

Set room temperatures 🌡

1. 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.

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	− + ◁▷	Reduced room temperature
Prog ▽△	3	− + ◁▷	Room temperature for holidays/frost protection
Prog ▽△	5	− + ◁▷	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 2 .

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

Change heating periods

1. Select the weekday to change heating periods:

Press	Display	Press	… to adjust the day or the entire week
Prog ▽△	6	− + ◁▷	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	− + ◁▷	Start of 1st heating period
Prog ▽△	8	− + ◁▷	End of 1st heating period
Prog ▽△	9	− + ◁▷	Start of 2nd heating period
Prog ▽△	10	− + ◁▷	End of 2nd heating period
Prog ▽△	11	− + ◁▷	Start of 3rd heating period
Prog ▽△	12	− + ◁▷	End of 3rd heating period

Change the d.h.w. scheduler program

Your controller has a second scheduler program. You can change it on operating lines 17 to 23 if assigned to d.h.w. provisioning:

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

Press	Display	Press	… to adjust the day or the entire week
Prog ▽△	17	− + ◁▷	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	− + ◁▷	Start of 1st period
Prog ▽△	19	− + ◁▷	End of 1st period
Prog ▽△	20	− + ◁▷	Start of 2nd period
Prog ▽△	21	− + ◁▷	End of 2nd period
Prog ▽△	22	− + ◁▷	Start of 3rd period
Prog ▽△	23	− + ◁▷	End of 3rd period

Domestic hot water is heated to the normal temperature (see "Provide domestic hot water", operating line 41) during activation periods. Between periods, d.h.w. is heated to a reduced temperature (operating line 42).

Plan holidays

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

| Press	Display	Press	… to select the holiday number and associated data
Prog ▽△	31	− + ◁▷	**1** for the 1st holiday period of the current year
Prog ▽△	32	− + ◁▷	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 ▽△	31	− + ◁▷	**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 Er 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).
2. 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.