Energy-efficient heating using the RVD26… 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.

1. Press to select the desired heating circuit 1 or 2 (corresponding LED is lit).
2. 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 to select the desired heating circuit 1 or 2 (corresponding LED is lit).
2. Press (button is lit).
3. Use the setting knob to set the desired room temperature (top=heating circuit 1, bottom=heating circuit 2).

Unspecified absence

Set the heating circuit or system to protection mode. Heating is off, but the system is protected against frost.

1. Press to select the desired heating circuit 1 or 2 (corresponding LED is lit).
2. 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).

All d.h.w. settings apply to both heating circuits!

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. Press to select the desired heating circuit 1 or 2 (corresponding LED is lit).
2. 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. 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)

Press to select the desired heating circuit 1 or 2 (corresponding LED is lit).

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!

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Read temperatures

1. Press ⇳ to select the desired heating circuit (corresponding LED is lit; outside and d.h.w. temperature are acquired independent of the heating circuit) to display both room temperature and heating circuit flow temperature.
2. Select the desired temperature.

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. Press ⇳ to select the desired heating circuit 1 or 2 (corresponding LED is lit).
2. 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

3. 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

1. Press ⇳ to select the desired heating circuit 1 or 2 (corresponding LED is lit).
2. 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 for both heating circuits.

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.