

# 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** (button is lit).

### Set date and time

Press	Display	Press	... to adjust date and time
Prog ▽ ▲	13	← →	Time of day
Prog ▽ ▲	14	← →	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
<b>ECO</b>	No heating required at this time based on outside air temperature or the set heating period
f or J	Limitation active
<b>BUS</b>	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

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## 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 1 <sup>st</sup> heating period
Prog ▽ ▲	8	← +	End of 1 <sup>st</sup> heating period
Prog ▽ ▲	9	← +	Start of 2 <sup>nd</sup> heating period
Prog ▽ ▲	10	← +	End of 2 <sup>nd</sup> heating period
Prog ▽ ▲	11	← +	Start of 3 <sup>rd</sup> heating period
Prog ▽ ▲	12	← +	End of 3 <sup>rd</sup> 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 1 <sup>st</sup> period
Prog ▽ ▲	19	← +	End of 1 <sup>st</sup> period
Prog ▽ ▲	20	← +	Start of 2 <sup>nd</sup> period
Prog ▽ ▲	21	← +	End of 2 <sup>nd</sup> period
Prog ▽ ▲	22	← +	Start of 3 <sup>rd</sup> period
Prog ▽ ▲	23	← +	End of 3 <sup>rd</sup> 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.