

Energy-efficient heating with the RVD24... district heating controller

en Operating Instructions

You want to switch the heating on



1. Is the plant ready to operate? Check the mains isolator.
2. Check the time of day and the weekday (for readjustments, refer to section "You want to set the clock").
3. Press **Auto** button

You want to heat in automatic mode



Automatic mode controls the room temperature according to the heating program entered.

1. Select the required heating circuit with (1 or 2; the assigned lamp lights up).
2. Press **Auto** button (button lights up).

You want to heat in continuous mode



In continuous mode, the room temperature is maintained at the level set with the setting knob.

1. Select the required heating circuit with .
2. Press button (button lights up).
3. Adjust the required room temperature with setting knob:
 - upper knob = heating circuit 1
 - lower knob = heating circuit 2

You want to leave your home for a certain period of time



Set the heating circuit resp. the plant to standby. It is then shut down, but will remain protected against frost

1. Select the required heating circuit with .
2. Press button (button lights up).

Meaning of info given in the display



Bar under ... is lit.	Meaning
	Nominal room temperature is maintained (setting made with the setting knob)
	Reduced room temperature is maintained
Display shows	Meaning
	Frost protection temperature is maintained
ECO	Presently no heating required
f or j	One of the limitation functions is active
BUS	Controller is connected to the data bus

You want to provide d.h.w.



First, adjust the required temperatures. You are given the choice of a normal and a reduced d.h.w. temperature.

Press ...	Display	Press to adjust the required temperature
	41		NORMAL d.h.w. temperature setpoint
	42		REDUCED d.h.w. temperature setpoint

For d.h.w. heating, you have the two choices:

Automatically:

Press button (button light steady on). The d.h.w. is heated up according to the time switch program.

Manually:

Press button for 3 seconds (as a confirmation, the button flashes for 3 seconds.). The d.h.w. is immediately heated up.

D.h.w. heating is provided independently of the heating circuits!

You want to set the clock



Press ...	Display	Pressto set the time of day and the weekday
	13		Time of day
	14		Weekday
	15		Date (e.g. 02.12 for 2 nd of december)
	16		Year

You want to readjust the temperature required for your rooms



1. Select the required heating circuit with .
2. Adjust the required nominal room temperature with the setting knob. The setting is active:
 - In automatic mode during the heating periods entered in the heating program
 - Always in continuous mode
3. Adjust the other temperatures and the heating curve using the buttons:

Press ...	Display	Press to adjust the required temperature
	01	Non-adjustable	Display of adjusted setting knob temp.
	02		Room temperature for reduced heating
	03		Room temp. for holidays/frost protection
	05		Heating curve slope

Your rooms are too cold or too warm



1. Select the required heating circuit with

Especially in mild weather:

2. Readjust the room temperature with setting knob .

Especially in cold weather:

2. Readjust the heating curve slope on operating line :
 - Room temperature too high: reduce slope by about 0.5
 - Room temperature too low: raise slope by about 0.5

Especially in the night:

2. Readjust the temperature for reduced heating on operating line .
3. Each time you have made a room temperature readjustment, wait two days. The controlled system requires time to adapt!

You want to change the heating program



1. Select the required heating circuit with .
2. Select weekday whose heating periods you want to change:

Press ...	Display	Pressto select the weekday or the entire work
	06		1 = Monday 2 = Tuesday, etc. 1-7 = entire week

3. For the selected weekday, enter the times required for the heating periods:

Press ...	Display	Pressto adjust the start and the end
	07		Start of first heating period
	08		End of first heating period
	09		Start of second heating period
	10		End of second heating period
	11		Start of third heating period
	12		End of third heating period

You want to read the temperatures



1. Select the required heating circuit for reading the room temperature and the flow temperature with .
2. Select the required temperature:

Press ...	Display	... to read the temperature in °C
	24	Room temperature
	25	Outside temperature
	26	D.h.w. temperature
	27	Heating flow temperature

Which input has which number?



1. Press operating mode button lit.
2. Select the individual numbers by pressing .

Number	Input	Number	Input
0	B9	6	B71
1	B1	7	B72
2	B3	8	B31
3	A6, heat.circ. 1	9	B32
4	A6, heat.circ. 2	10	B12
5	B7	11	DC 0...10 V

Contact your heating engineer.

You want to change the d.h.w. program



Your controller has a second time program. If it is assigned to d.h.w. heating (contact your heating engineer), you can change it on operating lines to .

1. Select weekday whose program you want to change:

Press ...	Display	Press to select the weekday or the entire week
	17		1 = Monday 2 = Tuesday, etc. 1-7 = entire week

2. For the selected weekday, enter the times required for enabling d.h.w. heating:

Press ...	Display	Pressto set the start and the end of the enabling periods
	18		Start of first period
	19		End of first period
	20		Start of second period
	21		End of second period
	22		Start of third period
	23		End of third period







During the enable phases, the d.h.w. is heated up to the normal temperature (set on operating line) , between the phases to the reduced temperature (set on operating line).

You want to go on holiday




1. Select the required heating circuit with .
2. You can enter the dates of maximum 8 holiday periods per year:

Press ...	Display	Press to select the holiday number and the associated dates
	31		1 for the first holiday period of the current year
	32		Date of the first day of the first holiday period



			Date of the last day of the first holiday period
			2 for the second holiday period of the current year
Etc.	Etc.	Etc.	Etc.

During your holidays,


- the room temperature will be maintained at the holiday setpoint level entered on operating line 
- the d.h.w. will not be heated up

Your heating system does not operate as required



- Check error messages. Should faults occur, the display shows **Er** (error) and an error code. Contact your heating engineer and give him the error code displayed.

Press ...	Display	... to read the error code
		10 = error outside sensor 30 = error flow sensor heating circuit 1 32 = error flow sensor heating circuit 2 40 = error return sensor (primary side) 42 = error return sensor 1 43 = error return sensor 2 50 = error storage tank sensor 1 52 = error storage tank sensor 2 54 = error flow sensor d.h.w. circuit 61 = error room unit heating circuit 1 66 = error room unit heating circuit 2 81 = short-circuit on bus 121 = flow temperature heating circuit 1 not reached 122 = flow temperature heating circuit 2 not reached 123 = flow temperature d.h.w. circuit not reached

Other errors are possible, depending on the type of plant, configuration, etc.

- Does the  buttons flash? In that case, the controller's operating mode is overridden by remote operation.
- Are all fuses of the plant in order?
- Have controller settings been changed?
- Has the valve been disengaged from the actuator? If yes, engage it again

The controlled system has become defective

If the proper functioning of your heating control system is no longer ensured, press button  (manual operation, button lights up). Now, you can manually regulate the supply of heat via the heating circuit valve by pressing buttons .

Inform your heating engineer.

Energy savings tips

TIP

- During the day, do not allow room temperatures to exceed 21 °C
- Air rooms for only short periods of time only, but with the windows fully open
- In unoccupied rooms, set the thermostatic radiator valves to their frost protection position
- Make certain there are no curtains, furniture, etc., in front of the radiators
- Close shutters and blinds whenever possible
- Check heat consumption at regular intervals