

RDE10.1DHW is a temperature controller that allows you to set the ideal room temperature at the time you want. In addition, it offers independent control of DHW. There are 2 different switching patterns available: 1 for controlling the heating output and 1 for controlling DHW. Both can be set independently to meet your specific needs. You can either rely on the factory settings or make your own settings that suit your personal needs.

Display

- °C Temperature
- Auto DHW activated
- Normal operation
- Energy saving mode
- Frost protection mode
- Automatic mode / switching pattern settings
- Heating ON

Weekday (1 = Monday / 7 = Sunday)

Measured room temperature, setpoints and parameters

Actual room temperature symbol

Real time from 00:00 to 23:59 AM / PM (for 12-hour mode)

Replace batteries

Switching pattern for DHW and heating

Operation

Warmer / colder setting the temperature setpoints and the time of day

Button for operating mode selection: Auto () , Normal operation () , Energy saving mode () , Frost protection mode ()

DHW control

Settings

- Time of day
- Weekday
- Auto DHW program
- Heating program

Batteries

3038Z02en

Commissioning with quick startup

The controller is supplied with factory-set switching patterns, switching times and temperatures. To commission it, proceed as follows:

- Remove the black transit tab from the 2 included batteries. Check to see if the battery holder is in its correct position. The controller switches itself on.
- Press button and then to set the current time of day and confirm by pressing .
- Press button and then to set the current weekday and confirm by pressing (1 = Monday through 7 = Sunday).
- Press button for the operating mode to select the required operating mode (default mode is automatic mode). The display shows the symbol when powered up. The sequence of operating mode is started from automatic , to normal , energy saving and frost protection , or vice versa.
- Press DHW button to select the required DHW operating mode (default mode is Auto DHW). The display shows the symbol when powered up. The sequence of DHW operating mode is started from automatic , to permanently OFF and permanently ON , or vice versa.

Energy saving tips without sacrificing comfort

- Never allow room temperatures to exceed 21 °C.
- Select energy saving mode, even if you are absent for short periods of time only.
- Air out the rooms for short periods of time only, but properly, with the windows wide open.

Are your rooms *too warm* / *too cold*?



By pressing these buttons, you increase or decrease the room temperature setpoint in increments of 0.5 °C. The display first shows the newly selected temperature and then the measured actual value again.

These changes are only valid up to the next switching point.

If, as a result of the factory settings, you always feel either too warm or too cold, you should readjust the temperature setpoint of normal operation ☀ or energy saving mode ☾ to suit your needs.

Do you want to select automatic operating mode?



If that is the case, press until the display shows the symbol. The controller will switch the heating output according to the automatic switching pattern.

Do you require continuous normal operating mode?



Press until the display shows the ☀ symbol to indicate that normal operating mode is selected. In normal operation, this ensures continuous heating to the normal temperature.

Do you require continuous energy saving mode?



Press until the display shows the ☾ symbol to indicate that energy saving mode is selected. In energy saving mode, this ensures continuous heating to the energy saving temperature.

Note:
The setpoint in energy saving mode can be set to 0 °C. This means **OFF** or, in other words, the controller is not active in energy saving mode and symbol ☾ will not appear on the display.

Risk of frost!

Do you want to set the controller to frost protection mode?



Press until the display shows the ⏻ symbol to indicate that frost protection mode is selected. In frost protection mode, the default setpoint is 5 °C. If the room temperature falls below the preset frost protection level, it will automatically activate the heating output.

Do you want to change the temperature set-points of normal operation or energy saving mode?



Proceed as follows:

- Press ☀ or ☾ if you want to change the setpoint of normal operation or of energy saving mode.
- The setpoint display starts flashing.
- Press the buttons to change the temperature setpoints in increments of 0.5 °C.
- By pressing , the setting will be saved and the entry mode quit.

Important:

In energy saving mode, the unit can be set to **OFF**. Proceed as follows:

- Change the temperature setpoints to 5 °C
 - Press and hold for 4 seconds
- Symbol ☾ will not appear on the display.

Risk of frost!

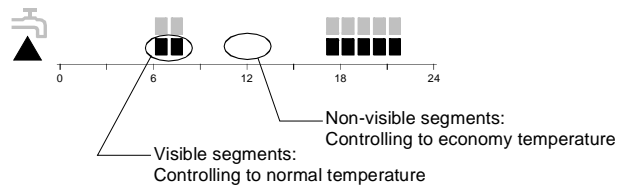
If you want to have frost protection, press the button for operating mode selection until the display shows the ⏻ symbol.

Do you want to enter your own 7-day switching pattern for heating?

A switching pattern consisting of 24 segments in the lower row can be entered for every weekday. Each segment represents a period of 1 hour. This means that a switching action can occur every 60 minutes.

Example:

Switching pattern for heating with factory setting Mo - Fr



Automatic operating mode changeover takes place according to such a switching pattern, provided the operating mode is set to .

Proceed as follows:











- Press once to reach the entry mode. The current switching pattern for day 1 (Monday) will be displayed. The segment at the lower left will start flashing and the time of day 00:00 is displayed.
- Press to set the point in time where you want to assign the operating mode.
- Assignment of the operating mode to a point in time is made by pressing ☀ and ☾ (point in time will be incremented by one automatically).
- Press or ☀ or ☾ to save the setting and to change to the next day.
- When entry of the 7-day switching pattern is finished, press and the entry will be saved.



Caution: 30 seconds after the last entry is made, the controller will leave the entry mode. In that case, the last switching pattern changes made will not be saved!

Do you want to activate DHW control?

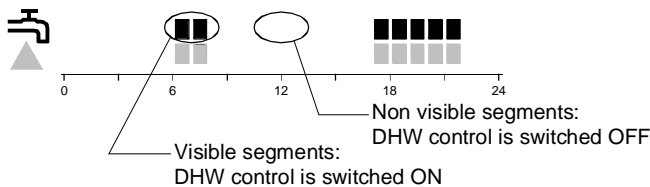
	<ul style="list-style-type: none"> Press  button to activate DHW control. The sequence for DHW control mode is Auto , OFF and then ON . The displays will show the symbol according to the operating mode. The default operating mode is  when the controller is first powered up. In Auto mode, the display shows , and the DHW heating equipment will automatically switch ON / OFF according to the switching pattern. In ON mode, the display shows , and no  symbol when DHW heating is deactivated.
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Do you want to enter your own 7-day switching pattern for DHW control?

A switching pattern consisting of 24 segments in the upper row can be entered for every weekday. Each segment represents a period of 1 hour. This means that a switching action can occur every 60 minutes.








Example:

Switching pattern for DHW control with factory setting Mo - Fr







Automatic operating mode changeover takes place according to such a switching pattern, provided the operating mode selector is set to position .


Proceed as follows:

	<ul style="list-style-type: none"> Press the  button once to reach the entry mode. The current switching pattern for day 1 will be displayed and the segment at the upper left hand side is flashing and the time of the day 00:00 is displayed. Press  to set the point in time you want to have DHW control switched ON/OFF. Then press  button to set the DHW control ON/OFF at this point in time. When you confirm the setting for day 1, press  or  to save the setting and go to the next day. Repeat the procedure for the next day until you have completed entry for the 7 days.
	<p>Caution:</p> <ul style="list-style-type: none"> 30 seconds after the last entry is made, the controller will leave the entry mode. In this case, the last switching pattern changes made will not be saved!



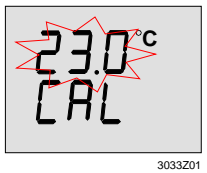


Does the symbol appear on the display?

	<p>When this symbol appears, you need to replace the batteries as soon as possible. The system starts to count down for 2 weeks. After this time, the controller will shut down immediately and all outputs will be switched OFF.</p> <p>Once the batteries are completely exhausted, there will be blank displays (only battery low symbol  will appear). After replacing the batteries, the controller will remember the last operation value and setting, including operating mode, setpoint and automatic switching pattern both for heating and DHW control. However, you have to reset the real time clock value. For  adjusting the time of day, please refer to the  setting.</p>
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Do you want to change the batteries?

	<ul style="list-style-type: none"> Get 2 new alkaline batteries type AA, 1.5 V Remove the battery holder, then the batteries, insert the new batteries and replace the battery holder. Make certain the old batteries are disposed of properly, in compliance with environmental requirements.
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


Recalibrating the sensor

	<p>If the room temperature displayed by the controller does not agree with the temperature effectively measured, the temperature sensor can be recalibrated.</p> <p>In all operation modes press and hold "+" and  buttons simultaneously for more than 3 seconds. The system will switch to calibration mode, the temperature digits flashing at 1Hz as follows.</p>
	
	<p>The room temperature displayed can now be matched to the temperature effectively measured. Each push of the "+" or "-" button changes the temperature by "+" or "-" 0.5 °C up to a maximum of +/- 3 °C</p>
	<p>If no button is pressed within 5 seconds, the system will resume the initial operating mode. The new adjusted temperature value is being saved and displayed.</p>

Do you wish to reset the 7-day switching patterns for heating and DHW control (to the factory settings)?

	Set unit to frost protection 		
		Press and hold simultaneously "+" and "-" for 4 seconds, then release.	
	Press timer program button twice within 2 seconds		
Default values	Day/s	Normal operation and DHW control auto ON mode	Energy saving mode and DHW control auto OFF mode
	Mo (1) – Fr (5)	06:00 – 08:00 h 17:00 – 22:00 h	22:00 – 06:00 h 08:00 – 17:00 h
	Sa (6) – Su(7)	07:00 – 22:00 h	22:00 – 07:00 h

Do you wish to reset all settings to the factory settings?

	To reset, first press and hold the button  ,		
		then press the 2 buttons "+" and "-" simultaneously for 3 seconds. This means that all switching times and all setpoints will be reset to their default values (the time clock will reset to 00:00). Caution: All individual settings will be lost!	
Default values	Temperature setpoint in normal operation: 20 °C Temperature setpoint in energy saving mode: 8 °C		
	Day/s	Normal operation and DHW control auto ON mode	Energy saving mode and DHW control auto OFF mode
	Mo (1) – Fr (5)	06:00 – 08:00 h 17:00 – 22:00 h	22:00 – 06:00 h 08:00 – 17:00 h
	Sa (6) – Su(7)	07:00 – 22:00 h	22:00 – 07:00 h