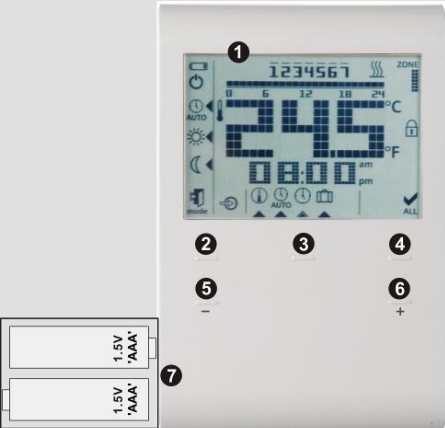













RDE100.1RFS consists of a wireless thermostat RDE100.1RF, and a RCR100RF receiver. These units allow you to set the ideal room temperature at the time you want. There are several switching patterns available that can be set to your specific needs.

### RDE100.1RF



#### 1. Display

-  Indicates that batteries need to be replaced
-  Frost protection (heating) is active
-  Auto timer mode
-  View and set auto time switch
-  Comfort mode
-  Economy mode
-  Escape
-  External input enabled
-  Permanent setpoint setting
-  Day and time setting
-  Holiday mode setting

#### 2. Change operating mode











#### 3. Set

#### 4. Ok


#### 5. Decrease value

#### 6. Increase value

#### 7. Battery holder

-  Display of time
- am Morning: 12-hour format
- pm Afternoon: 12-hour format
-  Confirmation
-  Room temperature in degrees Fahrenheit
-  Room temperature in degrees Celsius
-  Button lock activated
-  Display of room temperature, setpoint, etc
-  Display of the zone (Default is 1)
-  Heating ON
- Weekday 1 = Monday
- Weekday 7 = Sunday
-  Timer bar
-  Current room temperature

### RCR100RF



- 8. Indicates the data transmission and working status (LED)**
- 9. Initialize the wireless communication with transmitter (Learn button)**





### Do you want to adjust the time and day?

<b>set</b>	Proceed as follows:
<b>ok</b>	<ul style="list-style-type: none"> <li>• Press <b>set</b> and select ⌚</li> </ul>
<b>+</b>	<ul style="list-style-type: none"> <li>• Press <b>ok</b> and the time flashes for setting</li> </ul>
<b>-</b>	<ul style="list-style-type: none"> <li>• Press <b>+</b> or <b>-</b> to adjust the time</li> </ul>
<b>mode</b>	<ul style="list-style-type: none"> <li>• Press <b>ok</b> to confirm</li> <li>• The weekday flashes, press <b>+</b> or <b>-</b> to select the desired day</li> <li>• Press <b>ok</b> to save the value</li> <li>• Press <b>mode</b> to exit or wait for the program to exit automatically</li> </ul>


## Are your rooms too warm/too cold?

<p><b>+</b> <b>-</b> <b>ok</b> <b>set</b> <b>mode</b></p>	<p>Press <b>+</b> or <b>-</b> to increase or decrease the room temperature setpoint in increments of 0.5 °C / 1 °F. Proceed as follows:</p> <ul style="list-style-type: none"> <li>Press <b>+</b> or <b>-</b> to adjust the setpoint temporarily. This adjustment is reset as soon as the operating mode changes.</li> <li>Press <b>ok</b>, <b>set</b> or <b>mode</b> to save the value or wait for the program to exit automatically</li> <li>To lock the setpoints, use parameters P06 and P08.</li> </ul>
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## Do you want to change the operation mode?

<p><b>Mode</b></p>	<p>The thermostat provides Comfort mode, Economy mode, and Auto mode. Changeover between the operating modes can be made manually by pressing <b>mode</b>.</p> <p> <b>Comfort mode</b> is the permanent (24 h) selection of Comfort. Select this mode to maintain Comfort temperature permanently without any time switch. It is used during occupancy periods, for example.</p> <p> <b>Economy mode</b> is the permanent (24 h) selection of Economy. Select this mode to maintain the Economy temperature permanently without any time switch. It is used during non-occupancy periods, for example at night.</p> <p> In <b>Auto timer mode</b>, operating modes (Comfort, Economy) are changed automatically according to the time switch set.</p> <p><b>Note:</b></p> <p><b>Frost protection</b> is a function always active in the background. As soon as the room temperature falls below 5 °C, the unit automatically activates the heating icon .</p>
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
## Do you want to set permanent temperature setpoints?

<p><b>set</b> <b>ok</b> <b>+</b> <b>-</b> <b>Mode</b></p>	<ul style="list-style-type: none"> <li>Press <b>set</b> and select </li> <li>Press <b>ok</b> to confirm</li> <li>Press <b>mode</b> to choose an operating mode, Comfort or Economy mode</li> <li>Press <b>+</b> or <b>-</b> to adjust the setpoint permanently</li> <li>Press <b>ok</b> to confirm</li> <li>Press <b>mode</b> to exit or wait for a timeout to exit automatically</li> </ul> <p><b>Note:</b> This permanent setpoint is used during Auto timer mode.</p>
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## Energy saving tips without sacrificing comfort

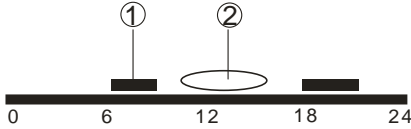

- Select Auto timer mode during the heating period, and set the time switch according to your normal habits at home
- Select Economy mode or Holiday mode during long periods of non occupancy and during summer period

## Do you want to set your Holiday mode?

<p><b>set</b> <b>ok</b> <b>+</b> <b>-</b> <b>mode</b></p>	<p>Use the Holiday mode to set the thermostat to a constant temperature while absent.</p> <ul style="list-style-type: none"> <li>Press <b>set</b> and select </li> <li>Press <b>ok</b> to confirm</li> <li>Press <b>+</b> or <b>-</b> to adjust the temperature setpoint</li> <li>Press <b>ok</b> to confirm</li> <li>Press <b>+</b> or <b>-</b> to adjust the number of days for holidays (Note: 0 = Holiday mode OFF)</li> <li>Press <b>ok</b> to save the value</li> <li>When Holiday mode is activated, the remaining days are displayed on the screen</li> </ul> <p><b>Note:</b> If you press <b>mode</b> while Holiday mode is active, the function is turned off and the  symbol disappears. If the Comfort and Economy setpoint values are both locked, the lowest locked setpoint value is the Holiday mode setpoint value. You can adjust the setpoint temperature from 5 °C up to the lowest locked setpoint value.</p>
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## Do you want to enter your own Time switch?

### Option 1: Time switch with individual day selection (P11=0)

<p><b>set</b> <b>ok</b> <b>+</b> <b>-</b> <b>mode</b></p>	<p>You can select Comfort mode or Economy mode at 15 minute intervals throughout the day. The 0:00 to 24:00 hour time bar allows you to set the operating mode for the selected day(s).</p> <p>Example:</p>  <p>① Visible bars: Control to Comfort temperature</p> <p>② Invisible bars: Control to Economy temperature</p> <p>When Auto timer mode is enabled, changeover between the operating modes is automatic after the settings are saved.</p> <p>Proceed as follows:</p> <ol style="list-style-type: none"> <li>Press <b>set</b> and select </li> <li>Press <b>ok</b> to confirm.</li> <li>Time switch for day Mon(1) is displayed.</li> <li>Press <b>+</b> or <b>-</b> to select the day, from Mon (1) to Sun (7).</li> <li>Press <b>ok</b> to confirm the selection and initiate time programming.</li> </ol> <p><b>During programming step:</b></p> <ol style="list-style-type: none"> <li>Press <b>mode</b> to select an operating mode, (Comfort or Economy) <b>or</b></li> <li>Press <b>+</b> or <b>-</b> to adjust the time setpoint by 15 minutes for the selected mode.</li> <li>Press <b>ok</b> to save the time switch.</li> <li>Repeat steps 4-8 for all remaining days (if required); <b>or</b></li> <li>Press <b>mode</b> or wait for the program to exit automatically..</li> </ol>
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### Option 2: Time switch with the same 7 day selection (P11=1)

**set**  
**ok**  
**+**  
**-**  
**mode**

You can set all the 7 day time switches at the same time.  
Example:

① Visible bars: Control to Comfort temperature  
② Invisible bars: Control to Economy temperature

Proceed as follows:

- 1) Set the parameter (P11=1). Please refer to the section "**Do you want to change parameters**".
- 2) Press **set** and select .
- 3) Press **ok** to confirm.
- 4) Time switch for period Mon (1) - Sun (7) is displayed.
- 5) Press **ok** to initiate time programming.

**During programming step:**

- 6) Press **mode** to select an operating mode, (Comfort or Economy) **or**
- 7) Press **+** or **-** to adjust time setpoint by 15 minutes for the selected mode.
- 8) Press **ok** to save the time switch.
- 9) Press **mode** or wait for the program to exit automatically.


### Option 3: Time switch with 5-2 day selection (P11=2)

**set**  
**ok**  
**+**  
**-**  
**mode**

You can set Monday - Friday time switch at once and Saturday - Sunday time switch at once.  
Example:

① Visible bars: Control to Comfort temperature  
② Invisible bars: Control to Economy temperature

Proceed as follows:

- 1) Set the parameter (P11=2). Please refer to the section "**Do you want to change parameters**".
- 2) Press **set** and select .
- 3) Press **ok** to confirm.
- 4) Time switch for period Mon(1) - Fri(5) is displayed.
- 5) Press **+** or **-** to select the period, Mon (1) - Fri (5) or Sat (6) - Sun (7).
- 6) Press **ok** to confirm the selected period and initiate time programming.


**During programming step:**

- 7) Press **mode** to select an operating mode, (Comfort or Economy) **or**
- 8) Press **+** or **-** to adjust the time setpoint by 15 minutes for the selected mode.
- 9) Press **ok** to save the time switch.
- 10) Repeat the steps 5-9 for the other period if necessary; **or**
- 11) Press **mode** or wait for the program to exit automatically.

### Factory default of 7-day time switch

Default value	Day/s	Comfort mode	Economy mode
	Mo (1) – Fr (5)	6:00 – 8:00 hr 17:00 – 22:00 hr	22:00 – 6:00 hr 8:00 – 17:00 hr
	Sa (6) – Su (7)	7:00 – 22:00 hr	22:00 – 7:00 hr

### Do you want to pair transmitter and receiver?



**+**  
**-**  
**learn**  


RDD100.1RF communicates with RCR100RF on 433 MHz frequency.  
To pair transmitter and receiver, proceeds as follows:

**RCR100RF Receiver setting:**

- 1) Press and hold the **learn** button on RCR100RF for at least 3 seconds and then release it.
- 2) Red and green LED flash alternatively to indicate RCR100RF is in learning mode.


**RDD100.1/RF Transmitter setting:**

- 3) On the transmitter, enter the parameter settings (See section on **Do you want to change parameters**).
- 4) Check that parameter P19 is not 0. 0 means the wireless function is disabled. By default, parameter P19 is 1.
- 5) Proceed to parameter P20. Press  and parameter P20 = 0 (OFF) flashes. Adjust the value by pressing **+** to change to P20 = 1 (ON), and then press  to confirm.
- 6) During the stages of wireless learning, the LCD displays "rF" and "Lrn". Wait for it to time out, and the transmitter exits the parameter setting mode.

**Successful wireless learning:**

- 7) The green LED on the RCR100RF flashes for 10 minutes to indicate that the RCR100RF has successfully completed the wireless learning.

**Recommendation:**


- 8) *Additional test to ensure the wireless signal is fine:*  
On the RDD100.1/RF, change the operating mode by pressing  or change the setpoint by pressing **+** or **-**. On the RCR100RF, the green LED should blink for 3 seconds before turning solid green. In parallel, observe your radiator, boiler or heater indication (if it has one) that it has changed the mode.
- 9) If step 7 or step 8 is working fine, this means you have successfully paired the units.

**Unsuccessful wireless learning:**

- 10) If RCR100RF fails to receive wireless data, the red LED starts to flash \*\*. Repeat steps 1 to 8 until the pairing is successful.

**! Note:**  
Always start the Receiver's learning before starting the pairing with the Transmitter.  
The units must be placed in a way that ensures that Transmitter and Received signals have limited external wireless interference.  
\*\*In normal operation, if a drop in wireless may occurs due to unforeseeable noise interference, just leave the receiver and it will recover automatically.  
The pairs are saved even if there is a power shut down. The communication restarts automatically after several minutes without any user manipulation.

## Does symbol appear on the display?

Symbol  is displayed when the batteries are low. Replace them with 2 new alkaline batteries type AAA. Proceeds as follows:

- Get 2 new alkaline batteries type AAA
- Remove the battery holder, then the batteries, insert the new batteries and, within 1.5 minutes, replace the battery holder
- Ensure the exhausted batteries are disposed of correctly, in compliance with environmental requirements

## Do you want to lock the keypad?

<b>mode</b>	Press and hold <b>mode</b> for at least 7 seconds to activate a button lock. Repeat to unlock. The unit operates normally when the buttons are locked, but no changes are possible while the buttons are locked.
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## Receiver LED's indication

RCR status	LED status
Power up (or reset)	The red and green LEDs flash alternatively for 5s, and then change to solid red. Note: If the receiver has been previously programmed, it shows immediately solid red.
Learning mode Successful Learning mode	The red and green LEDs flash alternatively. If RCR learning is successful, the green LED will flash for 10 minutes.
Signal OK and output status change	The green LED is solid on, and if the output status is changed, the green LED flashes for 3s and then changes back to solid green again.
Fail to receive wireless data	If RCR fails to receive wireless data, and after 125 minutes, the red LED will start to flash. If RCR signal is recovered, it will resume to the previous LED status.

## Do you want to change the parameters?

<b>+ - ok mode</b>	If you want to change control parameters, proceed as follows: <ul style="list-style-type: none"> <li>• Press <b>+</b> and <b>-</b> simultaneously for 5 seconds</li> <li>• Release them and parameter "P01" is displayed on the bottom segment</li> <li>• Press <b>+</b> or <b>-</b> to scroll to the parameter that needs to be adjusted</li> <li>• Press <b>ok</b> to select this parameter</li> <li>• Press <b>+</b> or <b>-</b> to adjust the value</li> <li>• Press <b>ok</b> to confirm the adjusted value</li> <li>• Press <b>mode</b> to exit the parameters without saving or wait for the program to exit automatically</li> </ul>
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## Parameter list

Parameter No.	Description	Setting range (default)
P01	Time format	1 = 24:00 hours (default) 2 = 12:00 AM/PM
P02	Selection of °C or °F	1 = °C (default) 2 = °F
P03	Standard temperature display	1 = room temperature (default) 2 = setpoint
P04	Temperature sensor calibration	-3...3 °C Step 0.5 °C (-6...6 °F, step 1 °F) Default: 0 °C
P06	Comfort setpoint lock	0 = OFF (default) 1 = ON → locked according to setting in permanent temperature setpoint
P08	Economy setpoint lock	0 = OFF (default) 1 = ON → locked according to setting in permanent temperature setpoint
P09	Buzzer	0 = OFF 1 = ON (default)
P10	Show frost protection icon	0 = OFF (default) 1 = ON
P11	Time switch type for auto timer	0 = Individual days (default) 1 = All 7 days 2 = 5-2 days
P12	Periodic pump run	0 = OFF (default) 1 = ON
P14	X1 external input	0 = no input (default) 1 = external sensor 2 = digital input
P15	Temperature limitation	0 = OFF (default) 1 = ON;
P16	Max limitation temperature for underfloor heating	25...60 °C, step 1 °C or 77...140 °F, step 1 °F Default: 30 °C
P17	Window contact features	0 = normally open contact (default) 1 = normally closed contact
P19	Sequence number of room unit	0 = no display of zone (RF off) 1 = zone number 1 (for standard RF) (default) 6 = zone number 6
P20	RF learn	0 = OFF (default) 1 = ON
P21	Button scanning rate for the capacitive buttons Note: a shorter scanning rate means shorter battery life.	0.2 = 0.25 s 0.5 = 0.5 s 1.0 = 1.0 s (default) 1.5 = 1.5 s
P22	Reload factory settings	0 = OFF (default) 1 = reload
P23	Software version information	No adjustment possible
P78	Control behavior	0 = On/Off, 1.0K 1 = On/Off, 0.3K 2 = TPI fast 3 = TPI medium 4 = TPI slow (default)
P89	Forward shift on max	0, 0.5,...24 h Default: 0 h
P90	Early shutdown max	0, 0.5,...6 h Default: 0 h