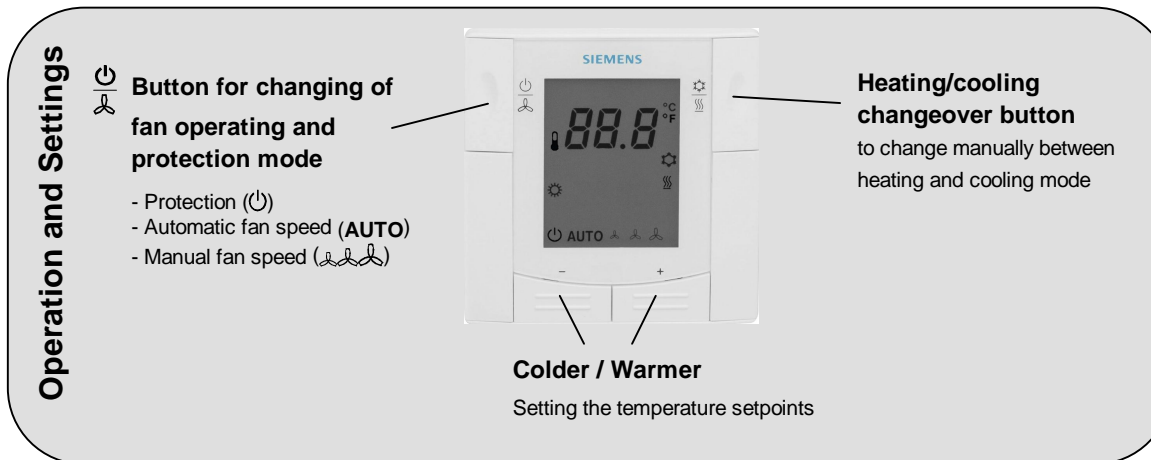
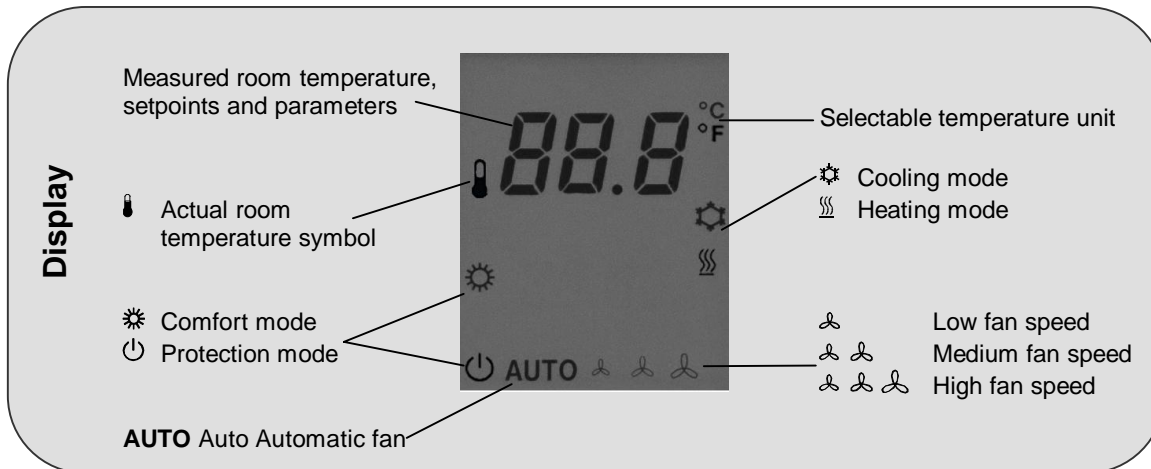


Operating Instructions

RDF310.2/MM

RDF310.2/MM – the thermostat that allows you to set the ideal room temperature you want. The thermostat provides both comfort mode and protection mode.

The fan operates either in automatic mode or at the selected speed when using manual mode. You can either rely on the factory settings or make adjustments that suit your individual needs.



Are your rooms too warm or too cold?

	Only applicable in Comfort mode.
+ / -	Pressing the + or - button to increase or decrease the current room temperature setpoint for Comfort mode in increments of 1.0 °C. The setting range is from 5...40 °C, unless it is limited by parameters P05 and P06.

Do you want to set your controller to protection mode?

	Press the button and the symbol shows, indicating that protection mode is selected.
	In protection mode , the controller maintains the lower setpoint of heating for frost protection via parameter P03 or the higher setpoint of cooling for moldy resistance according to parameter P04.
	Important: If the setpoint of protection is set to OFF , the thermostat will not be activated in protection mode. Risk of frost!

Do you want to change the fan mode?

	Press the button until you have selected the desired fan mode.
AUTO	In automatic mode, the fan speed is automatically selected by the controller and depends on the setpoint and the actual room temperature. When the room temperature has reached the setpoint, the fan either remains in fan speed low (factory setting) or switches off (parameter P21). In manual mode the fan operates independently and always runs at the same speed: Low, medium or high. The actual fan speed is indicated by the number of fan symbols.
	Low fan speed
	Medium fan speed
	High fan speed

Do you want to change from heating to cooling mode?

	When pressing the button, the controller changes from heating to cooling or vice versa.
	If the controller is commissioned <i>cooling only</i> or <i>heating only</i> , no changeover is possible (please see parameter P22: factory setting <i>manual H/C changeover</i>)




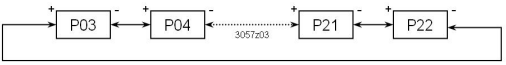




Do you want to calibrate the displayed room temperature?

If the displayed room temperature does not match the actual temperature, the temperature sensor can be calibrated by modifying parameter P07.




	Proceed as described under " Changing the control parameters " and follow steps 1 through 3 to select parameter P07. In step 4, modify the displayed room temperature to match the actual temperature. Each pressing of the + or - button changes the temperature in increments of 0.5 °C and up to a range of ±3 °C. In step 7, the calibration is automatically stored 10 seconds after the last readjustment.
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Changing the control parameters

To optimize the control performance, you can use local HMI to adjust a number of control parameters. Proceed as follows to change the control parameters (see the table of "[Commissioning by qualified HVAC staff](#)" for factory settings):

  + / -	<ol style="list-style-type: none"> Set the thermostat to protection mode . Press and hold down the + and - buttons simultaneously for 3 seconds. Release them and, within 2 seconds, press and hold down the + button for 3 seconds. The display shows P03.
+ / -	<ol style="list-style-type: none"> Select the required parameter by pressing the + or - button as follows: 
+ / -	<ol style="list-style-type: none"> Press the + and - buttons simultaneously. The current value of the selected parameter displays on the screen. Press the + or - button to change the value.
+ / -	<ol style="list-style-type: none"> You can either press the + and - buttons simultaneously to confirm the change, or wait for 5 seconds to have the change saved automatically. Repeat step 3 through 5 to change more parameters.
 	<ol style="list-style-type: none"> 10 seconds after the last display, all changes are saved and it returns to protection mode. Press the  button to switch to Comfort mode .

Commissioning (by qualified HVAC staff)

Parameter	Description	Factory setting	Setting range	Adj. 
P03	Setpoint of heating in protection  (Wheat _{Stb})	8 °C	OFF, 5 °C...Wcool _{Stb}	
P04	Setpoint of cooling in protection  (Wcool _{Stb})	OFF	OFF, Wheat _{Stb} ...40 °C	
P05	Minimum setpoint limitation in Comfort mode (Wmin _{Norm})	5 °C	5 °C...Wmax _{Norm}	
P06	Maximum setpoint limitation Comfort mode (Wmax _{Norm})	35 °C	Wmin _{Norm} ...40 °C	
P07	Sensor calibration	0 K	-3...3 K	
P08	Switching differential heating SDH	1 K	0.5...4 K	
P09	Switching differential cooling SDC	1 K	0.5...4 K	
P14	Dwelling time of auto fan speeds	2 min.	1...5 minutes	
P17	Selection of °C or °F	°C	°C or °F	
P18	Display of room temperature or setpoint	ON	OFF: Setpoint ON: Room temperature	
P21	Fan control in normal operation (Comfort mode)	ON	OFF in dead zone ON in dead zone	
P22	Heating/cooling mode	3:Manual H/C changeover	0: Heating only 1: Cooling only 3: Manual H/C changeover	

 Please record all changes you make.

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