SIEMENS

en Operating Instructions

RDF300..., RDF340..., RDF300.../VB, RDU340...

RDF/RDU... - the room thermostat that allows you to set the ideal room temperature you want.

The thermostat provides Comfort mode, Economy mode and Protection.

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.



+ - Press + or - to increase or decrease the current room temperature setpoint for Comfort mode. The thermostat changes to Comfort *****. The setting range is from 5...40 °C, unless limited by parameters P09 and P10.

Siemens Smart Infrastructure

\$	Press the ${\Bbb A}$ button until vou reach the desired fan mode.		
Auto	In Auto mode, the fan speed is automatically selected by the thermostat and depends on the setpoint and the actual room temperature. When the room temperature has reached the setpoint, the fan remains in fan speed low (factory setting)		
	In manual mode the fan operates independently and always runs at the same speed: Low, medium or high.		
&∎∎	Low fan speed		
&∎∎∎∎	Medium fan speed		
&∎∎∎∎∎ ∎	High fan speed		
	For a single-speed fan, the mode can be changed between & wo and & a f ff .		
et the the	rmostat to Protection		
	ψ		
0	Press the operating mode button $\overline{\mathbb{C}}$ several times until the display shows the \emptyset symbol to indicate that Protection is selected.		
\bigcirc	In Protection \textcircled{O} , only frost protection is active (factory setting = 8 °C), unless your HVAC installer has adjusted the factory settings.		
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Change the ⊍→C←禁 & ©	Changes by installer □ Frost protection: °C □ Heat protection: °C • thermostat to Economy mode The thermostat can be set to Economy mode either via pressing the operating mode button □ if enabled (see parameter P02), or via an external contact such as window switch, key card switch etc. If the external contact is activated the thermostat changes from Comfort mode or Protection to Economy mode. Any operation by the user has no influence. In Economy mode, the automatic fan control is active.		
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$\begin{array}{c} \hline \\ \hline $	Changes by installer □ Frost protection:°C □ Heat protection:°C • thermostat to Economy mode The thermostat can be set to Economy mode either via pressing the operating mode button ○ if enabled (see parameter P02), or via an external contact such as window switch, key card switch etc. If the external contact is activated the thermostat changes from Comfort mode or Protection to Economy mode. Any operation by the user has no influence. In Economy mode, the automatic fan control is active. Note: If the thermostat is configured for manual heating / cooling changeover, the Economy mode can not be selected via operating mode button ○. • mheating to cooling mode The changeover between cooling and heating is done either automatically by a heating / cooling changeover sensor or a remote changeover switch, or manually by pressing the operating mode button ○. If the thermostat is configured for cooling only or heating only, no changeover is possible (see parameter P01) Display for automatic changeover or continuous heating/cooling: Heating valve is open Cooling valve is open Display for manual changeover: Thermostat is in heating mode		

Button lock

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	Press operating mode button 🕽 for 7 seconds to lock or unlock the buttons if	
	manual button lock is configured (parameter P14 = 2).	
	The thermostat automatically locks the buttons 30 seconds after the last	
	adjustment if "Auto lock" is configured (P14 = 1).	

• The key symbol • indicates locked buttons.

Reminder to clean filters

Δ	FII	This message reminds you to clean the filter on your HVAC equipment.
•	•••=	It will appear after 🖋 "fan operating hours" and disappear when
		the thermostat is set to Protection (\bigcirc). This reminder must be configured by
		your HVAC installer.

External faults

	This alarm message tells you an external alarm has occurred:		
Ţ	AL1		
Ţ	AL2		
	The alarms are configured by your HVAC installer		

Commissioning (by qualified HVAC installer)

To adapt the thermostat to your system and optimize the control performance, a number of control parameters can be adjusted. This can also be made during operation without opening the thermostat.

Control sequence

<u>ss</u>

<u> </u> \$_	The thermostat can be used in systems either for <i>heating only</i> or <i>cooling</i> only, manually selection of heating or cooling, or automatic heating / cooling changeover. Depending on the selected application, the relevant modes are
	available and can be adjusted by commissioning parameter P01 if needed. The factory setting for 2-pipe and single duct application is "Cooling only", and for 4 pipe application "Heating and Cooling"

Recalibrating the sensor

Note: Economy mode

C	The Economy setpoints are factory-set to 15 °C for heating and 30 °C for cooling. Use parameters P11 and P12 to adjust the values.
\triangle	Important: You can set these setpoints to OFF; the thermostat then is inactive, i.e. no protective heating or cooling function. \rightarrow Risk of frost!

Control parameters

CIG

+/-

Proceed as follows to change the most important control parameters: (Your HVAC installer can set additional parameters)

- 1. Set the thermostat to Protection \oplus
- 2. Press and + simultaneously for a minimum of 3 seconds.

Release them and, within 2 seconds, press + again for 3 seconds. "PO1" is displayed.

+ /- 3. Repeatedly press the + or – button to select the required parameter.



- + / 4. Press + and simultaneously, the current value of the selected parameter starts to flash, allowing you to change the value by repeatedly pressing + or –.
- +1- 5. The next parameter is displayed when you press + and again simultaneously.
 - 6. Repeat steps 3 to 5 to display and change additional parameters.
 - Press + or until "End" is displayed, and then press + and simultaneously to save the change and exit parameter entry mode. 10 seconds after the last display or setting, all changes are saved and the thermostat will leave paramet entry mode.

Para- meter	Description	Factory setting	Setting range	
P01	Control sequence	2-pipe, Single duct: [03] 1 (Cooling only) 4-pipe:. [24] 4 (Heating & Cooling)	0 = Heating only 1 = Cooling only 2 = Manual H or C 3 = Auto Changeover 4 = Heating & cooling	
P02	Mode selection by user via operating mode button	1 (Protection, Comfort)	1 = Protection, Comfort, 2 = Protection, Comfort, Economy	
P04	Selection of °C or °F	°C	°C or °F	
P05	Sensor calibration	0.0 K	– 3 +3 K	
P06	Standard temperature display	0 (Room temp.)	0 = Room temperature 1 = Setpoint	
P07	Additional user information	0 (no display)	0 = no display 1 = Temp in °C / °F	
P08	Comfort basic setpoint	21 °C	5 40 °C	
P09	Minimum setpoint limitation in Comfort (Wmincomf)	5 °C	5 40 °C	
P10	Maximum setpoint limitation in Comfort (Wmaxcomf)	35 °C	5 40 °C	
P11	Setpoint of heating in Economy mode (Wheat _{Eco})	15 °C	OFF, 5 °CWcool _{Eco}	
P12	Setpoint of cooling in Economy mode (Wcool _{Eco})	30 °C	OFF, Wheat _{Eco} 40°C	
P13	Electric heater in cooling mode	ON	OFF = Disabled ON = Enabled	
P14	Button lock (Press operating mode button $\underbrace{\bigcirc}_{\subseteq}$ for 7 seconds to lock or unlock the buttons)	0 (Disabled)	0 = Disabled 1 = Auto lock 2 = Manual lock	

Please record all changes you make!