

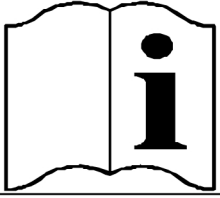


Installation, operating and maintenance **RDG remote control**

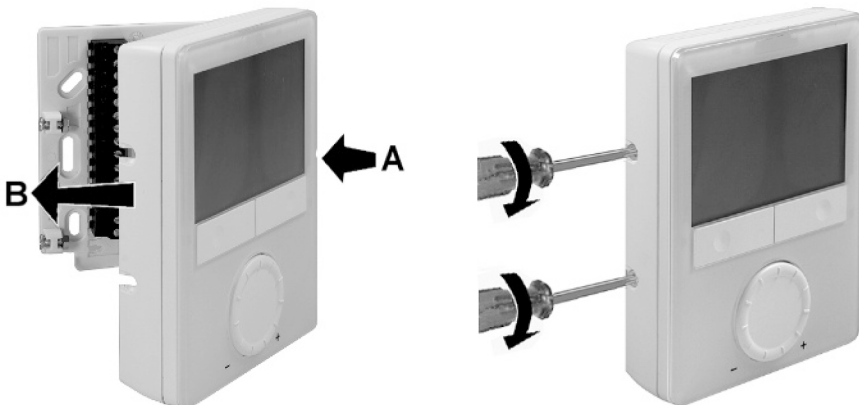
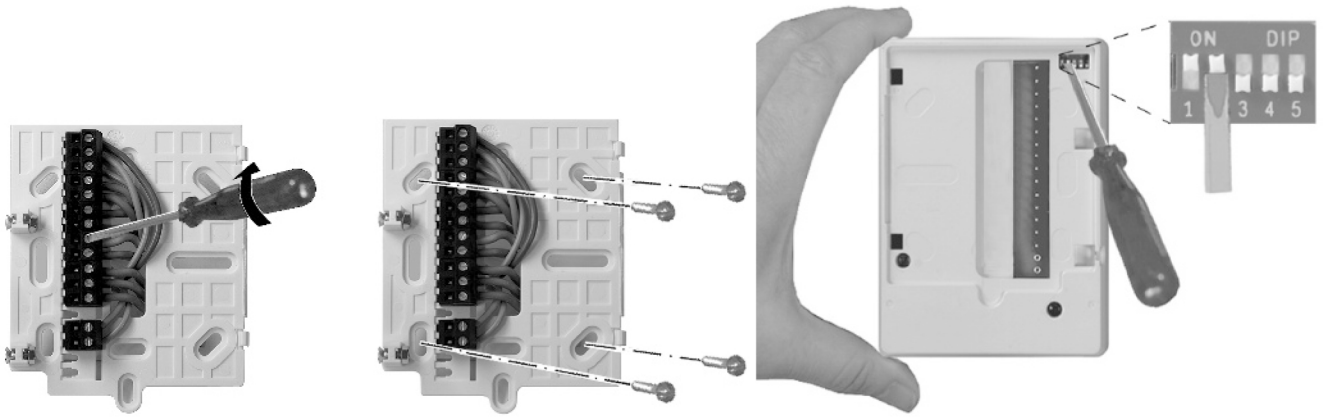
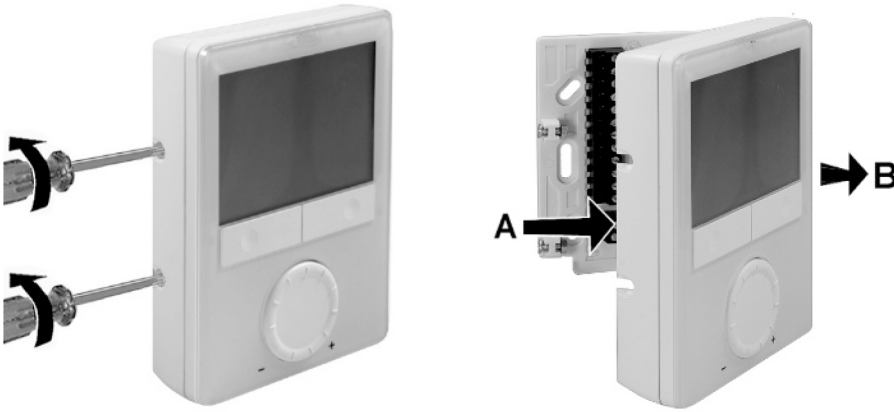
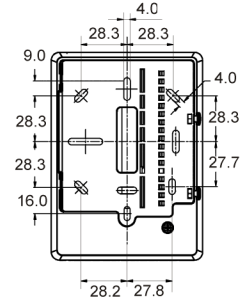
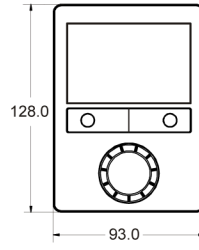
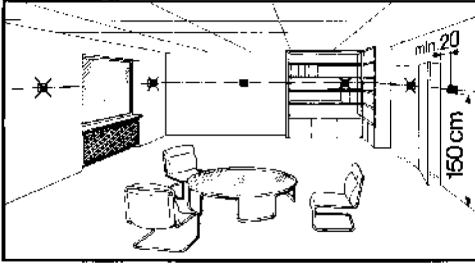


- Providing indoor climate comfort





RDG140 RDG160



1) ① ⑤

2) **a** Outputs → DC 0...10 V / DC 10...0 V

3) and

4)

5) G, G0 / 24 VAC: → P01...Pn


→ P3181

		RDG140...	RDG160...
a	V1 / Y10	DC 10..0 V DIP 4 ON DC 0..10 V DIP 4 OFF	DC 10..0 V DIP 4 ON DC 0..10 V DIP 4 OFF
①	2-pipe		


a	V1 / Y10	DC 10..0 V DIP 4 ON DC 0..10 V DIP 4 OFF	DC 10..0 V DIP 4 ON DC 0..10 V DIP 4 OFF
	V2 / Y20	DC 10..0 V DIP 5 ON DC 0..10 V DIP 5 OFF	DC 10..0 V DIP 5 ON DC 0..10 V DIP 5 OFF
②	2-pipe & el. heater		
③	2-pipe & radiator		
④	4-pipe		
⑤	2-stage		

	en	de	fr	it	es	cs	tr
①	2-pipe fan coil	2-Rohr Ventilator-konvektor	Ventiloconvecteur 2 tubes	Fan coil 2 tubi	Fancoil a dos tubos	2-trubkový fan-coil	2 borulu fan coil
②	2-pipe & el. heater	2-Rohranwendung & Elektroheizer	Application 2 tubes & batterie électrique	Fan coil 2 tubi con batteria elettrica di riscaldamento	2 tubos & batería eléctrica	2-trubkový fan-coil & el. ohřev	2 borulu& elk. Isitici
③	2-pipe & radiator	2-Rohranwendung & Radiatorventil	Application 2 tubes & vanne thermostatique	Fan coil 2 tubi e radiatori	2 tubos & rad	2-trubkový fan-coil & radiátor	2 borulu& radyatör
④	4-pipe fan coil	4-Rohr Ventilator-konvektor	Ventiloconvecteur 4 tubes	Fan coil 4 tubi	Fancoil a 4 tubos	4-trubkový fan-coil	4 borulu fan coil
⑤	2-stage	2-Stufen-Anwendung	Application à 2 étages	2 stadi	2 etapas	2-stupňový	2 kademe









Operating Instructions

RDG160/NL 







RDG – the electronic room thermostat that allows you to set the ideal room temperature you want. The thermostat satisfies your individual needs in all operating modes: Comfort, Energy Saving 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.








1 Main display

-  **24.5** Room temperature
-  Room temperature in degrees Celsius
-  Room temperature in degrees Fahrenheit
-  Button lock active
-  Alert indicator
-  Condensation in the room
-  Temporary timer function active
-  Additional user information
- A** Operating mode button
- B** Fan mode button
- C** Rotary knob

2 Operating mode


-  Heating mode
- AUX** Electrical heater on
-  Cooling mode
-  Comfort mode
-  Energy Saving mode
-  Protection mode: Protection against frost
-  Indicator for selecting mode

3 Fan mode

-  Automatically
- Manually: 
-   
Low / medium / high

Changing the room temperature




- The room temperature setpoint can be adjusted with the rotary knob when Comfort mode  is active
- Turn the rotary knob clockwise (+) to increase, or counterclockwise (-) to decrease the current room temperature setpoint for Comfort mode

The setting range is from 5...40 °C, unless limited by parameters P09 and P10 (for parameter settings, see reverse side).

Adjusting the fan speed



- Press the fan mode button until the desired fan mode is reached
- In Automatic mode , the fan speed is automatically selected by the thermostat depending on the setpoint and the actual room temperature. When the room temperature reaches the setpoint, the fan keeps running at low speed (factory setting)
- In Manual mode, the fan operates independently and always runs at the same speed: Low / medium / high



Note:

If desired, you can change the fan mode selector option via P03: Manually only, or manually including Protection mode.

Selecting Comfort mode ☀️⏪



- Press the operating mode button until symbol ☀️⏪ appears, indicating that Comfort mode is selected
- In Comfort mode, the thermostat maintains the setpoint which can be readjusted with the rotary knob

Selecting Protection mode 🏠⏪



- Press the operating mode button until symbol 🏠⏪ appears, indicating that Protection mode is selected
- In Protection mode, the plant stops operating. If the room temperature falls below 8 °C, heating is switched on however to protect the room against frost

The setpoints for Protection mode can be changed by your HVAC installer if desired:

Changes made by installer: Frost protection: _____ °C Heat protection: _____ °C

Selecting Energy Saving mode ☾⏪

In Energy Saving mode, the room temperature is maintained at a lower or higher setpoint, thus saving energy and money.



- When selecting Energy Saving mode, make sure that parameter P02 is set to 2
- Press the operating mode button until symbol ☾⏪ appears
- You can change the preselected setpoint by adjusting parameters P11 and P12 (for parameter settings, see reverse side)

Important: The setpoint for Energy Saving mode can be set to OFF. This means that the thermostat is deactivated! Risk of frost, i.e. no protective heating or cooling function is provided!

Energy saving tips without sacrificing comfort:

- Air out rooms for short periods of time only, but properly, with the windows wide open
- Never allow the room temperature to exceed 21 °C through heating, and to fall below 25.5 °C through cooling

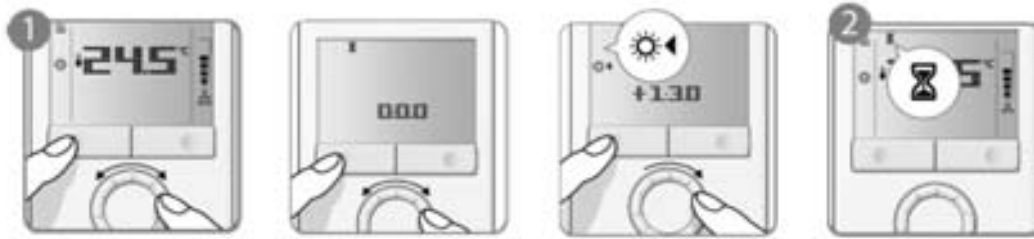
Button lock



- To lock or unlock the buttons manually, press and hold the fan mode button for 3 seconds. The buttons are locked or unlocked in this manner if P14 is set to 2
- If P14 is set to 1, the thermostat automatically locks the buttons 10 seconds after the last adjustment

Temporary timer for extended presence or absence

The Comfort and Energy Saving modes can be temporarily extended by 0.5 to 9.5 hours using the temporary timer.



- To set the temporary timer, press and hold the operating mode button for maximum 3 seconds. While holding the button, turn the rotary knob clockwise or counterclockwise as required.
 - Turn the rotary knob clockwise to extend Comfort mode.
Display: ☀️ ◀️ 0....+9:30
 - Turn the rotary knob counterclockwise to extend Energy Saving mode.
Display: ☾ ◀️ 0....-9:30
- Release the operating mode button and the mode is temporarily changed, indicated by ⌚.

After the temporary timer has elapsed, the thermostat will resume operation in the operating mode that was active before:

Extended Comfort mode	New operating mode = Energy Saving
Extended Energy Saving mode	New operating mode = Comfort

- If Energy Saving mode cannot be selected via the operating mode button (P02≠2), Protection mode will be used for extended absence instead!
- The temporary timer function is aborted whenever a new setting is made

Note:

Extended Comfort mode is also possible when an external contact such as a keycard switch or central time clock is active. To enable this function, the time for the extended period must be set via parameter P68.

Changing from heating to cooling mode



- Depending on the type of plant, the changeover from heating to cooling (or vice versa) is made either automatically by a changeover sensor or a remote changeover switch, or manually by pressing the operating mode button (see parameter P01)



- To select cooling or heating manually (P01=2), press the operating mode button until the desired mode appears
- With automatic changeover or continuous heating / cooling, symbols ☀️ / ❄️ indicate that the system currently operates in heating or cooling mode
- With manual changeover, symbol ◀️ appears, indicating that the system currently operates in heating or cooling mode

Control parameters



If you want to change control parameters, proceed as follows:

1. Press both buttons simultaneously for at least 3 seconds.
2. Release them and, within 2 seconds, press the right button again for 3 seconds. The display shows P01.
3. Select the required parameter by turning the rotary knob.
4. Press button ✓ (OK). The current value of the selected parameter starts blinking and can be changed by turning the rotary knob.
5. Press button ✓ (OK) to confirm the adjusted value, or ⏏ (Esc) to cancel the change.

If you wish to adjust additional parameters, repeat steps 3 through 5, or press ⏏ (Esc) to leave the parameter setting mode.

Parameter list

No.	Parameter name	Default value	Setting range	Adj.
P01	Control sequence	2-pipe / 2-stage: 1 = cooling only 4-pipe: 4 = H and C	0 = heating only 1 = cooling only 2 = H/C changeover, manually 3 = H/C changeover, auto 4 = heating and cooling	
P02	Mode selection via operating mode button	1	1 = Comfort / Protection mode 2 = Comfort / Energy Saving / Protection mode	
P03	Mode selection via fan mode button	0	0 = Auto / Manually 1 = Manually 2 = Auto / Manually / Protection mode	
P04	Selection of °C or °F	0	0 = °C 1 = °F	
P05	Sensor calibration	0.0 K	- 3...3 K	
P06	Standard temperature display	0	0 = room temperature 1 = setpoint	
P07	Additional display information	0	0 = --- (no display) 1 = °C and °F	
P08	Comfort basic setpoint	21 °C	5...40 °C	
P09	Minimum setpoint limitation in Comfort mode	5 °C	5...40 °C	
P10	Maximum setpoint limitation in Comfort mode	35 °C	5...40 °C	
P11	Setpoint for heating in Energy Saving mode (WheatE-saving)	15 °C	OFF, 5 °C...WcoolE-saving	
P12	Setpoint for cooling in Energy Saving mode (WcoolE-saving)	30 °C	OFF, WheatE-saving...40°C	
P13	Electrical heater in cooling mode	ON	OFF = disabled ON = enabled	
P14	Button lock	0	0 = disabled 1 = automatically 2 = manually	

The control parameters displayed depend on the DIP switch settings made



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