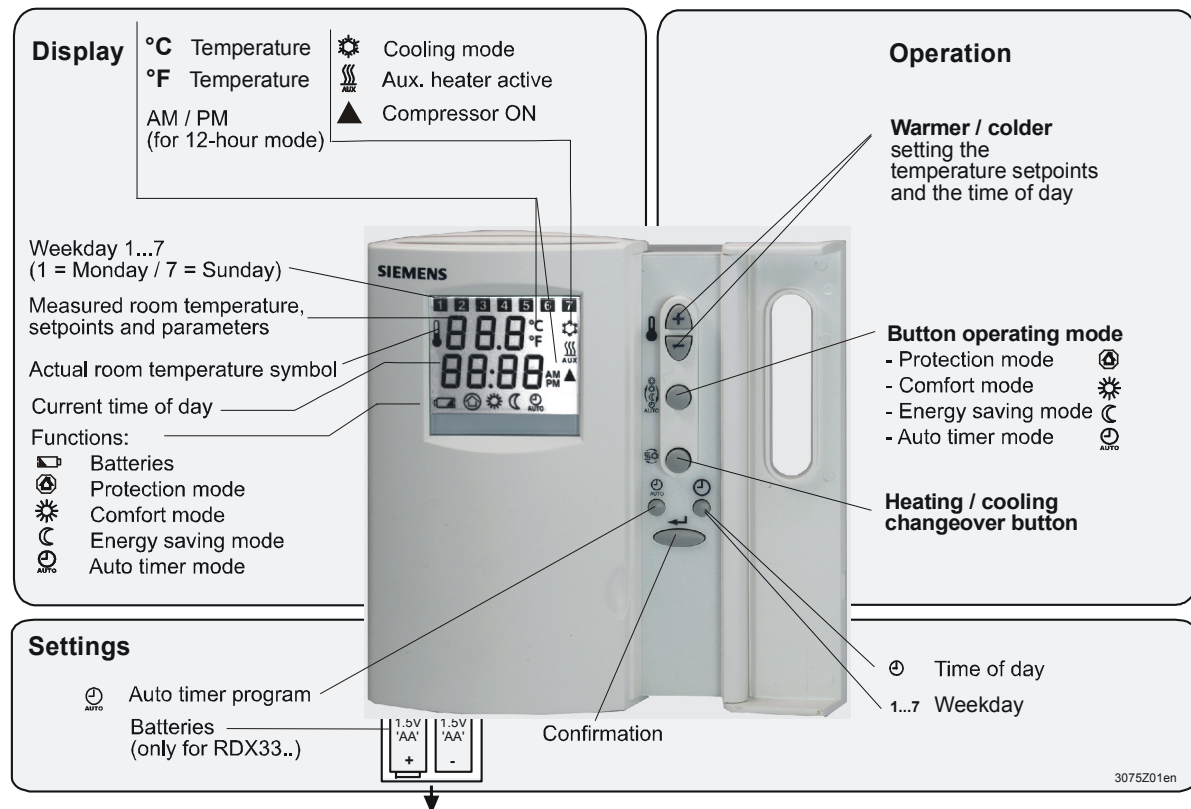


## en Operating Instructions

### RDX33... / RDX43...

RDX33... / RDX43... – the temperature controller that allows you to set the ideal room temperature you want. The controller provides protection-, comfort-, energy saving- or auto timer mode with 8 programmable timers.



### Commissioning

#### Initial power-up

- Remove the black transit tabs from the 2 alkaline batteries. Check to see if the battery holder is in its correct position. If no batteries are inserted, fit 2 alkaline batteries type AA in the battery compartment
- Once batteries are fitted, all symbols will appear on the display as shown for about 2 seconds.

### Setting the time of day and the weekday

- Keep the button pressed until the time digits start to flash and then press to set the time of day. If the current time is the 24-hour format and you wish to change to the 12-hour format, set P17 to 0 = 12-hour format (or vice versa 1 back to the 24-hour format).
- Confirm the time of day by pressing and the weekday indicator starts to flash.
- Press to set the current weekday.
- Confirm the current weekday by pressing .

### Are your rooms too warm or too cold?

Only applicable in comfort operation. Pressing allows you to increase or decrease the current room temperature setpoint for comfort operation in increments of 0.5 °C. The maximum 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?

Press the button several times until the display shows the symbol to indicate that protection is selected.

In protection , the controller maintains the adjusted lower setpoint of heating (parameter P03) or the higher setpoint of cooling (parameter P04).

**Important:** If the setpoint of protection is set to **OFF** (factory setting), the controller will not be active.

**Risk of frost!**

### Do you want to change from heating to cooling mode?

The changeover between cooling and heating is done by a remote changeover switch.

When pressing the button, the controller changes from heating to cooling or vice versa.

### Do you want to change to auto timer-, comfort or energy saving mode?

Press the button several times until the display shows the symbols to indicate which mode you want to select.

The controller will automatically change over comfort mode and energy saving mode according to the 8 preprogrammed timers.

### Do you want to set the programmable timer settings?

To adjust the time schedule, keep the button pressed for 3 seconds to go to the programmable timer setting mode.

**A..** This mode is indicated by displaying Ax (x= auto timer 1...8) and the time xx:xx flashing. For each auto timer, proceed as follows:

- The and symbols are displayed. Press to adjust the comfort operation start time and confirm by pressing .
- The and symbols are displayed. Press to adjust the comfort operation end time or energy saving start time respectively and confirm by pressing .
- Symbol **1** will flash. Press to select or deselect each day and advance to the next day. Confirm setting for actual timer by pressing and advance to the next timer.

The controller will leave the programmable timer setting mode if no button is pressed within 20 seconds. All changes made after the last press of button will not be saved.

### Do you want to view the programmable timer settings?

Press the button to sequentially review the 8 auto timers.

### Do you want to reload the default timer settings?

1. Set the controller to protection mode .
2. Press and simultaneously for 3 seconds. Release them and, within 2 seconds, press 2 times .

Default settings	Day/s	Time when controller is in normal operation	
	Mo (1) – Fr (5)	06:30 – 08:30 (A1)	17:30 – 22:30 (A2)
Sa (6)	08:00 – 23:00 (A3)		
Su (7)	08:00 – 22:30 (A4)		
	- in the remaining time controller is in energy saving - timer A5...A8 are free, no default setting		

### Changing the control parameters

To optimize the control performance, a number of control parameters can be adjusted. This can also be made during operation without opening the controller.

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

(For factory settings, see table on the right-hand side)

1. Set the controller to protection mode .
2. Press and simultaneously for a minimum of 3 and a maximum of 5 seconds. Release them and, within 2 seconds, press the again for 3 seconds. The display will show "P01".
3. Select the required parameter by repeatedly pressing the or button:
4. By pressing and simultaneously, or by pressing , the current value of the selected parameter appears, which can be changed by repeatedly pressing or .
5. 5 seconds after the last press of a button, or by pressing and simultaneously, the value will be stored.
6. If you wish to display and change additional parameters, repeat steps 3 through 5.
7. 10 seconds after the last display or setting, all changes are stored and the controller will return to standby.
8. Switch to comfort operation with the button.

### Changing the batteries

1. Get 2 new batteries of type AA alkaline, 1.5 volts.
2. Within 1 minute: Remove the battery holder, then the batteries, insert new batteries and replace the battery holder.
3. Make certain the old batteries are disposed of properly, in compliance with environmental requirements.

### Recalibrating the sensor

If the room temperature displayed by the controller does not agree with the temperature effectively measured, the temperature sensor can be recalibrated. For that purpose parameter P07 must be changed.

- Proceed as described under "Changing the control parameters" and follow steps 1 through 3 to select parameter P07.
- With step 4, 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. With step 7, the recalibration is automatically stored 10 seconds after the last readjustment.

### Commissioning (by qualified HVAC staff) (all temperature settings can be made in increments of 0.5 K and the time in increments of 1 min.)

Parameter	Controller's parameter factory settings:	Setting range , step	RDX33	RDX43
P01	Setpoint of heating in energy saving mode (W heat Eco)	16	OFF, 5 °C...W cool Eco, 0.5 K	
P02	Setpoint of cooling in energy saving mode (W cool Eco)	28	OFF, W heat Eco...40 °C, 0.5 K	
P03*	Setpoint of heating in protection mode  (W heat PROT)	8 °C	OFF, 5 °C...W cool PROT, 0.5 K	
P04*	Setpoint of cooling in protection mode  (W cool PROT)	OFF	OFF, W heat PROT ...40 °C, 0.5 K	
P05	Min. setpoint limitation in Comfort mode  (W min Comf.)	5 °C	5...40 °C, 0.5 K	
P06	Max. setpoint limitation in Comfort mode  (W max Comf.)	35 °C	5...40 °C, 0.5 K	
P07	Sensor calibration	0 K	-3...+3 K, 0.5 K	
P08	Switching differential heating SDH	2 K	0.5...+4K, 0.5 K	
P09	Switching differential cooling SDC	1 K	0.5...+4K, 0.5 K	
P10	Setpoint differential between heating & auxiliary heating W <sub>D</sub>	2 K	0.5...+5K, 0.5 K	X
P11	Minimum compressor on-time (Q14)	1 min.	1...10 minutes, 1 min.	
P12	Minimum compressor off-time (Q14)	3 min.	1...10 minutes, 1 min.	
P13	Auxiliary heater minimum hold-time	1 min.	1...10 minutes, 1 min.	X
P14	Selection of °C or °F	°C	C or °F	
P15	Display of temperature or setpoint	ON	OFF: Setpoint ON: Room temperature	
P16	Auxiliary heater in heating mode	1: Enable	0: Disable 1: Enable	X
P17	Time format option	1: 24 h	0: 12 hour format 1: 24 hour format	
P18	Operating action changeover heating/cooling Q21 - Q22	0:	0: Open (heating), close (cooling) 1: Close (heating), open (cooling)	

### Legend to table

	Adjustable: Please record all changes you make		Not adjustable / display only	<b>X</b>	Not available
--	--	--	-------------------------------	----------	---------------

P03\* / P04\*: P04 is at least min. 5 K higher than P03

### Energy saving tips without sacrificing comfort

- Never allow room temperatures to exceed 21 °C.
- Air out rooms for short periods of time only, but properly, with the windows wide open.