SIEMENS



Room Thermostat

RAA30...

Adjustable room thermostat for heating only or cooling only systems

Room thermostat with manual ON/OFF switch **Two-position control**

Use

The RAA30... room thermostat is used in heating only or cooling only systems to maintain the selected room temperature.

Typical use:

- Residential buildings
- Light industrial buildings

In conjunction with

- zone valves, thermal valves
- gas or oil burners
- fans
- pumps

Functions

The front of the unit carries an ON/OFF switch.

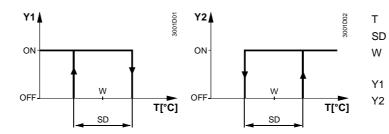
OFF

When in the OFF position, the input voltage is physically separated from the output

ON

The RAA30... room thermostat has separate ouputs for heating only and cooling only. If the room temperature falls below the selected setpoint, the heating contact will close. If the room temperature exceeds the selected setpoint, the cooling contact will close.

Function diagrams



Type summary

Functionality	Order number (ASN)		
Thermostat for heating or cooling application with	RAA30		
ON/OFF switch			
Operating voltage AC 24250 V			
Thermostat for heating or cooling application with	RAA30.16		
ON/OFF switch and operation mode indication (LED)			
Operating voltage AC 230 V + 10/-15 %			
Thermostat for heating or cooling application with	RAA30.26		
ON/OFF switch and operation mode indication (LED) and			
independent ON/OFF switch			
Operating voltage AC 230 V + 10/-15 %			

Room temperature

point

Switching differential

Room temperature set-

Output signal "Heating"

Output signal "Cooling"

Equipment combinations

Designation	Type reference	Data Sheet
2-way zone valve DN15	MVE21.15	CE1N4828
2-way zone valve DN 20	MVE21.20	CE1N4828
2-way zone valve DN 25	MVE21.25	CE1N4828
3-way zone valve DN 15	MXE21.15	CE1N4828
3-way zone valve DN 20	MXE21.20	CE1N4828
3-way zone valve DN 25	MXE21.25	CE1N4828
Thermal actuator (suitable for radiator valves VD / VE / VU and 2T)	STE21.1	CA1N4874

Accessories

Functionality	Order number (ASN)
Adapterplate 120 x 120 mm for 4" x 4" conduit boxes	ARG70
Adapterplate 96 x 120 mm for 2" x 4" conduit boxes	ARG70.1

Technical design

Key features of the RAA30... room thermostat:

- Two-position control
- Manual ON/OFF switch
- · Gas-filled diaphragm

Adjustments

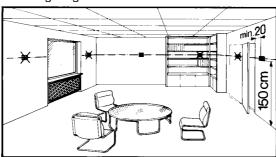
The required temperature is selected by a setpoint adjuster on the front of the thermostat

The setpoint setting range can be mechanically limited by means of tappets under the unit cover.

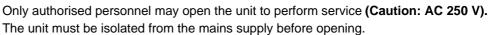
Mounting, installation and commissioning

The room thermostat should located where the air temperature can be sensed as accurately as possible, without getting adversely affected by direct solar radiation or other heat or refrigeration sources.

Mounting height is about 1.5 m above the floor.



The unit can be fitted to most commercially available recessed conduit boxes or directly on the wall.



When installing the unit, fix the baseplate first then hook on the thermostat body and make the electrical connections. Then fit the cover and secure it (also refer to separate mounting instructions).

The thermostat must be mounted on a flat wall.

The local electrical regulations must be complied with.

If there are thermostatic radiator valves in the reference room, set them to their fully open position.

Maintenance Mechanical design

The room thermostat is maintenance-free.

The diaphragm is filled with environmentally friendly gas.

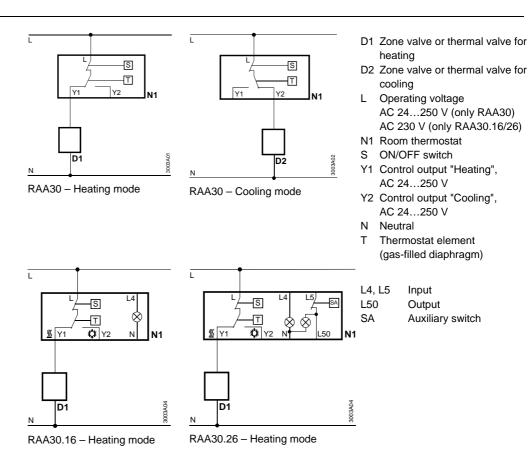
The thermostat housing is made of plastic.

Technical Data

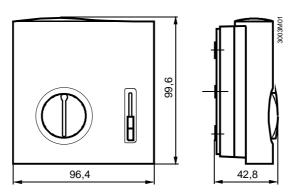
Power supply	Operating voltage RAA30 RAA30.16 / 30.26 Power consumption of each LED	AC 24250 V AC 230 V +10/-15 % 0.5 VA
	(Only RAA30.16/30.26)	
	Frequency	50 or 60 Hz
Operational data	Switching differential SD	≤1K
	Setpoint setting range	830 °C
	Amperage at AC 250 V	0.26 (2) A
Environmental conditions	Operation	to IEC 721-3-3
	Climatic conditions	class 3K5
	Temperature	0+50 °C
	Humidity	<95 % r.h.
	Pollution degree	Normal, to EN 60730
	Transport / storage	to IEC 721-3-2
	Climatic conditions	class 2K3/1K3
	Temperature	-20+50 °C
	Humidity	<95 % r.h.
	Mechanical conditions	class 2m2
	Packaging	single packaging / min. order 20 pieces
Norms and standards	C € conformity	
	Low voltage directive	73/23/EEC and 93/68/EEC
	Product standard	EN 60730

Safety standard	II to EN 60730
Degree of protection	IP30 to EN 60529
Screw terminals for	2 x 1.5 mm ² or 1 x 2.5 mm ² , min. (0.5 mm ²)
Weight	0.14 kg
Colour of top cover	white, NCS 50502-G (RAL 9003)

Connection diagrams



Unit



Baseplate

