SIEMENS



Room Thermostat

RAA11

Tamperproof for heating only or cooling only

Two-position control Switching voltage AC 24...250 V

Use

The RAA11 room thermostat is used in heating only or cooling only systems to maintain the selected room temperature where a tamperproof housing is needed.

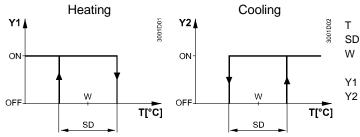
Typical use:

- Schools
- Public buildings
- Storage rooms
- Maintenance rooms

Functions

The RAA11 room thermostat has separate outputs 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



T Room temperature

- D Switching differential
- Room temperature setpoint
- 1 Output signal "Heating"
- 2 Output signal "Cooling"

Equipment combinations

Type of unit	Type reference	Data sheet ^{*)}
Motoric on/off actuator	SFA21	4863
Thermal actuator (for radiator valve)	STA21	4893
Thermal actuator (for small valve 2,5 mm)	STP21	4878

Accessories

Description	Type reference
Adapter plate 120 x 120 mm for 4" x 4" conduit boxes	ARG70
Adapter plate 96 x 120 mm for 2" x 4" conduit boxes	ARG70.1
Adapter plate for surface wiring 112x130 mm	ARG70.2

Technical design

Key features of the RAA11 room thermostat:

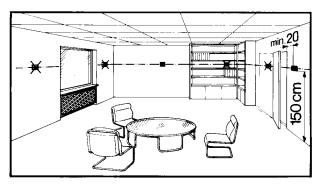
- Two-position control
- Gas-filled diaphragm
- No external adjustment facility

Notes

Mounting, installation and commissioning

The thermostat should be 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.

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AC 250 ν	The unit must When installin make the elec mounting instr The thermosta The local elect	trical connections. Then fit t uctions. It must be mounted on a flat trical regulations must be co	supply before opening. first, then hook on the thermostat body and he cover and secure it also refer to separate t wall.	
	 Warning! No internal line protection for supply lines to external consumers (Y1, Y2) Risk of fire and injury due to short-circuits! Adapt the line diameters as per local regulations to the rated value of the installed overcurrent protection device. 			
Maintenance Mechanical design	The room thermostat is maintenance-free. The diaphragm is filled with environmentally friendly gas. The thermostat housing is made of plastic.			
Ordering				
	Type (ASN)	Part number (SSN)	Description	
	RAA11	S55770-T219	Room thermostat RAA11	
Disposal				
	 The devices are considered electronics devices for disposal in terms of European Directive 2012/19/EU and may not be disposed of as domestic waste. Dispose of the device via the channels provided for this purpose. Comply with all local and currently applicable laws and regulations. 			

Technical data

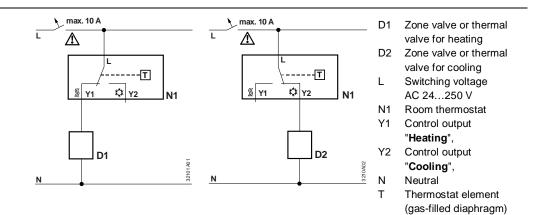
Power supply	Switching capacity Voltage	AC 24250 V	
	Current	0.26(2.5) A	
٨	Frequency No internal fuse	50 or 60 Hz	
<u>/7</u>	External preliminary protection with max. C 10 A circuit breaker in the supply line required under all circumstances		
	Screw terminals for	2 x 1.5 mm ² (min. 0.5 mm ²)	
Operational data	Switching differential SD	≤1K	
	Setpoint setting range	830 °C	
Environmental conditions	Operation	to IEC 60721-3-3	
	Climatic conditions	Class 3K5	
	Temperature	0+50 °C	
	Humidity	<95 % r.h.	
	Pollution degree	normal, to EN 60730-1	
	Transport / Storage	to IEC 60721-3-2	
	Climatic conditions	Class 2K3/1K3	
	Temperature	-20…+50 °C	
	Humidity	<95 % r.h.	
	Mechanical conditions	Class 2M2	
Industry standards	EU Conformity (CE)	CE1T3561xx ^{*)}	
	RCM Conformity	CE1T3561en_C1 ^{*)}	

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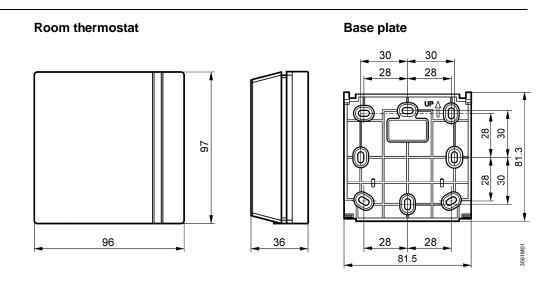
The product environmental declaration CE1E3561 ^{')} contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).

Safety standard Degree of protection of housing	II to EN 60730-1 IP30 to EN 60529
Weight	0.14 kg
Colour	white, NCS S 0502-G (RAL 9003)
*) The documents can be downloaded from	http://siemens.com/bt/download.

Connection diagrams



Dimensions



Remarks

Heating:

Because of the unavoidable self heating effects of the electrical current, any loads of more than 3 Amperes connected to the unit can influence the control behavior and temperature accuracy in a negative way.

Cooling:

Because of the unavoidable self heating effects of the electrical current, any loads of more than 1 Amperes connected to the unit can influence the control behavior and temperature accuracy in a negative way.

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