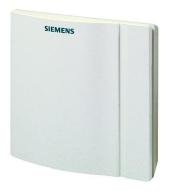
SIEMENS 3<sup>561</sup>



# **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.

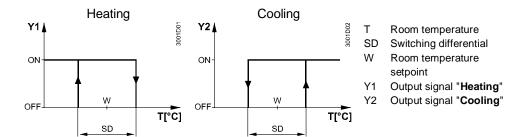
# Typical use:

- 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**



# **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

The documents can be downloaded from <a href="http://siemens.com/bt/download">http://siemens.com/bt/download</a>.

#### **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:

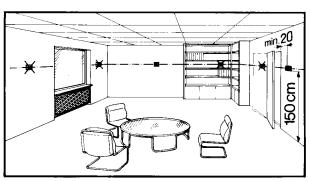
- Two-position control
- Gas-filled diaphragm
- · No external adjustment facility

#### **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.



Only authorised personnel may open the unit to perform service.

The unit must be isolated from the mains supply before opening.

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.



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

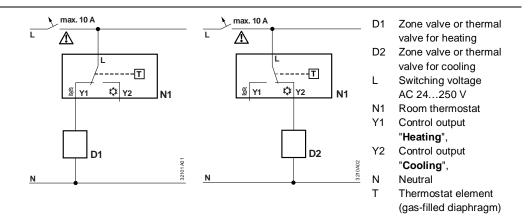
# Environmental Compatibility

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)

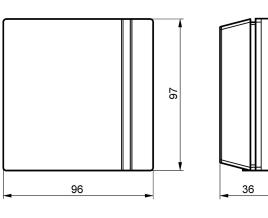
<sup>\*)</sup> The documents can be downloaded from <a href="http://siemens.com/bt/download">http://siemens.com/bt/download</a>.

#### **Connection diagrams**

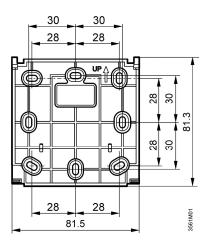


#### **Dimensions**

#### Room thermostat



# Base plate



#### 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.