

## RAA Series Room Thermostats

### Product Numbers

Product Number	Mounting Style		Switch	Scale	
	Electrical Wall Box	Drywall	Tamperproof	Fahrenheit	Celsius
RAA10C		•	•		•
RAA10CW	•		•		•
RAA20U		•		•	•
RAA20UW	•			•	•

### Features

- Two-point control algorithm (on-off)
- Two mounting styles: electrical wall box or drywall
- Wall plate adapter (ARG70) included with electrical wall box mounting styles
- Dual setpoint temperature scale.
- Heating only or cooling only control.
- Tamperproof (concealed) setpoint (RAA10...)

### Typical Specifications

Thermostat shall provide control of room space for simple heating or cooling, two-pipe applications where fan speed is not controlled. There shall be one control output sequence: two-position, on/off control output. When wired for heating only, switch contact shall break open on increase in temperature. When wired for cooling application, thermostat switch shall make contact on increase in temperature. Thermostat shall have a setpoint adjustment range of 50°F to 85°F (10°C to 30°C). The setpoint dial shall have a dual scale graduated in degrees Fahrenheit and Celsius. Switching differential shall be fixed at 1.8°F (1.0°C). Thermostat must conform to UL 873. Thermostat shall not contain mercury or other environmentally unfriendly metals or gases. Thermostat shall employ a gas vapor sensing switch and tamper-resistant, upper and lower limit stops settable in two-degree increments. Thermostat shall be as manufactured by Siemens Building Technologies.

### Description

Two-wire, gas diaphragm-based room thermostats for use in heating and/or cooling (two-pipe) systems.



### Technical Data

Operating voltage	24 to 120 Vac, 277 Vac
Frequency	50/60 Hz
Setpoint range	50°F to 85°F (10°C to 30°C) Setpoint limit stops are adjustable (except RAA10...)
Switching differential (SD)	≤1.8°F (1°C), fixed
Switch rating	6A RES, 3.5A FLA, 12A LRA
Switch action	Single-pole, Double-throw
Output	Two-position (on/off)
Weight	5 oz. (0.14 kg)
Color	Ivory white (housing) Gray (selector knobs)
Ambient conditions	
Operation temp.	32°F to 122°F (0°C to 50°C)
Operation rh	<95%
Transportation temp.	-4°F to 122°F (-20°C to 50°C)
Transportation rh	<95%
Housing	
Material	Plastic
Enclosure rating	NEMA1
Bellows	Environmentally-friendly gas
Wiring	
Screw terminals	2 × 16 AWG or 1 × 14 AWG Minimum 20 AWG
Agency certification	Conforms to CE requirements UL listed to 873 (E35918) cUL listed to Canadian standard C22.2 No. 24-93

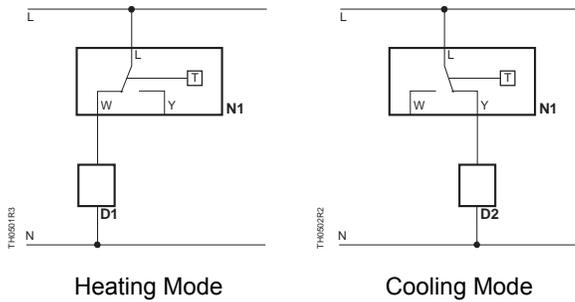
### Accessories

- ARG70 Wall Plate Adapter

**NOTE:** An ARG70 Wall Plate Adapter must be used to meet UL and cUL requirements.

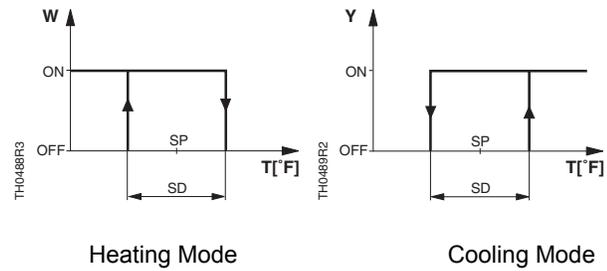
**Wiring Diagrams**

RAA10... and RAA20...



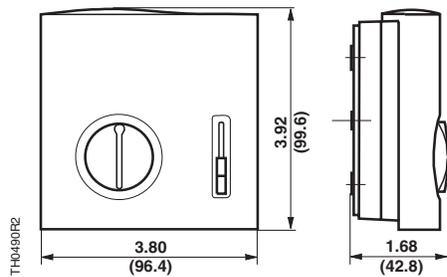
**Operating Diagrams**

RAA10..., and RAA20...

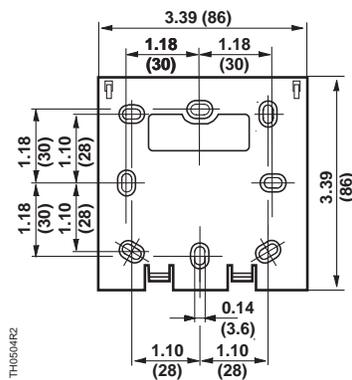


- |    |                   |    |                        |
|----|-------------------|----|------------------------|
| D1 | Heating device    | N1 | Room thermostat        |
| D2 | Cooling device    | T  | Thermal switch         |
| L  | Operating voltage | W  | Heating control output |
| N  | Neutral           | Y  | Cooling control output |

**Dimensions**



RAA... Thermostat



Base Plate

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