ACCUTROL® LLC

Room Temperature Sensor
RTS100

Laboratories, Life Sciences, Healthcare

- Room Temperature Sensor
  - Type II, 10K ohm Thermistor
- Available as a combination Room Temperature and Room Humidity Sensor
- Options include:
  - LCD Display
  - Setpoint Adjustment Slider
  - Momentary Override Switch
  - Humidity Sensor
- Used with Accutrol AC8000 Series Controllers
- Used with BAS Controllers

Description

The Accutrol RTS100 Series includes wall mounted Room Temperature Sensors and combination Room Temperature/Humidity Sensors. Options include temperature setpoint adjustment slider as well as manual override switch where required. The RTS100 Series Sensors are designed to be used with Accutrol AC8000 Series Controllers and BAS Controllers. Please see the Selection Matrix on page 3.

Features and Options

- 10K Ω Type II thermistor
- Optional setpoint adjustment slider (warm/cool)
- Large LCD provides local indication of temperature as well as setpoint, setpoint adjust, override and humidity when ordered as options.
- Momentary override switch option can be configured as a separate output.
- Optional communication jack allows direct connection to the room controller.

Specifications
RTS100 Temperature Sensor

ENVIRONMENTAL	
Temperature	32° to 122° F (0° to 50° C)
Humidity	0% to 95% non-condensing

PHYSICAL CHARACTERISTICS	
Material/Rating	ABS Plastic, UL 94, V-O
Material Color	Warm White

MOUNTING
Standard 2"x4" J-box or drywall mount (screws provided)

SENSING ELEMENT (TEMPERATURE)	
Thermistor	10K-2 ohm @ 25° C
Accuracy	±2%

AGENCY
RoHS, CE

POWER / POWER CONSUMPTION (LCD DISPLAY MODELS)	
Power Required	15 to 40 VDC or 15 to 28 VAC* * Note: AC power requires a separate pair of shielded wires.
Power Consumption	7mA max DC; 17 VA max AC

LCD DISPLAY OPTION	
Temperature Display	°F Standard (can be set to °C in field)

Specifications
RTS100 Temperature/Humidity Sensor

ENVIRONMENTAL	
Temperature	32° to 122° F (0° to 50° C)
Humidity	0% to 95% non-condensing

PHYSICAL CHARACTERISTICS	
Material/Rating	ABS Plastic, UL 94, V-O
Material Color	Warm White

MOUNTING
Standard 2"x4" J-box or drywall mount (screws provided)

TEMPERATURE SENSOR	
Thermistor	10K-2 ohm @ 25° C
Accuracy	±2%

HUMIDITY SENSOR	
Sensor	Capacitive Polymer
Accuracy	±2% RH (10-90%) @ 25° C, Fully compensated
Signal Output	0 to 10 VDC

AGENCY
RoHS, CE

| POWER / POWER CONSUMPTION (LCD DISPLAY MODELS)	
Power Required	15 to 40 VDC or 15 to 28 VAC* * Note: AC power requires a separate pair of shielded wires.
Power Consumption	74 mA max. / 0.1 VA max. for 0 to 10 VDC output

LCD DISPLAY OPTION	
Temperature Display	°F Standard (can be set to °C in field)

Room Temperature Sensor
Ordering Guide

RTS 1 ☐ ☐ – ☐ ☐ ☐

Display

0 = No
1 = Yes

Setpoint Slider

0 = No
1 = Yes

Options

E = Ethernet Connector
H = Humidity Sensor
S = Switch (Override)

2.86" (72.7mm)   1.06" (26.9mm)   4.50" (114.3mm)   Closed Cell Foam

RTS100 / RTS101

2.86" (72.7mm)   1.06" (26.9mm)   4.50" (114.3mm)   Closed Cell Foam
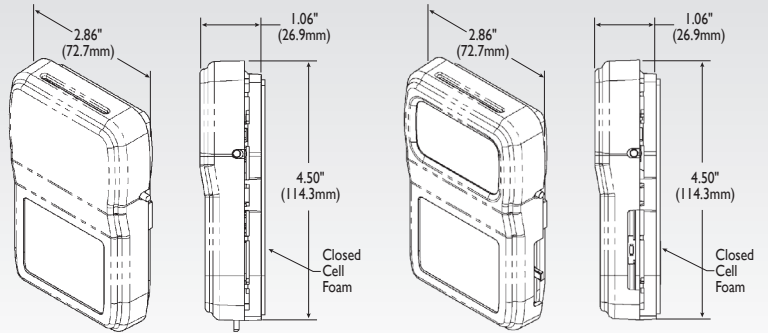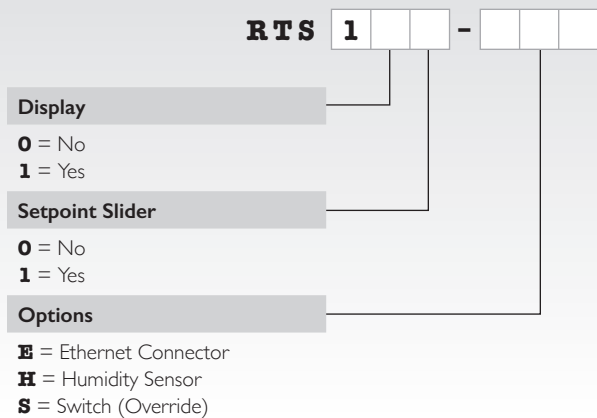
RTS110 / RTS111 (with display)

Selection Matrix

Accutrol Model Code	Display (1)	Setpoint Slider (1)	OPTIONS Ethernet Connector (E)	Humidity Sensor (H)	Switch (Override) (S)	USE WITH BAS Controller	AC8000 Controller
RTS100	✗	✗	✗	✗	✗	✔	✔
RTS100-E	✗	✗	✔	✗	✗	✔	✔
RTS100-S	✗	✗	✗	✗	✔	✔	✔
RTS100-ES	✗	✗	✔	✗	✔	✔	✔
RTS101	✗	✔	✗	✗	✗	✔	✔
RTS101-E	✗	✔	✔	✗	✗	✔	✔
RTS101-S	✗	✔	✗	✗	✔	✔	✔
RTS101-ES	✗	✔	✔	✗	✔	✔	✔
RTS110	✔	✗	✗	✗	✗	✔	✔
RTS110-E	✔	✗	✔	✗	✗	✔	✔
RTS110-S	✔	✗	✗	✗	✔	✔	✔
RTS110-ES	✔	✗	✔	✗	✔	✔	✔
RTS111	✔	✔	✗	✗	✗	✔	✔
RTS111-E	✔	✔	✔	✗	✗	✔	✔
RTS111-S	✔	✔	✗	✗	✔	✔	✔
RTS111-ES	✔	✔	✔	✗	✔	✔	✔
RTS110-H	✔	✗	✗	✔	✗	✔	✔
RTS110-EH	✔	✗	✔	✔	✗	✔	✔
RTS110-HS	✔	✗	✗	✔	✔	✔	✔
RTS110-EHS	✔	✗	✔	✔	✔	✔	✔
RTS111-H	✔	✔	✗	✔	✗	✔	✔
RTS111-EH	✔	✔	✔	✔	✗	✔	✔
RTS111-HS	✔	✔	✗	✔	✔	✔	✔
RTS111-EHS	✔	✔	✔	✔	✔	✔	✔