



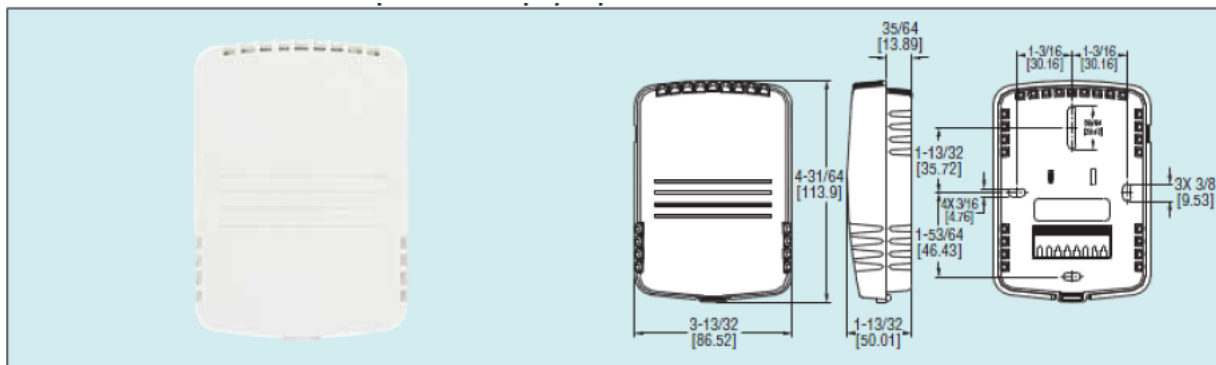
Address: Av. Ragueb Chohfi, 960, Torre 3, Sala 73 - São Mateus - São Paulo (SP) Brazil - CEP: 08375-000

Phone: 55 (11) 2031 6658 / Whats app: (11) 9 7993 6574 /

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Site: <http://www.rsistemas-automacao.com.br/empres/empres.aspx>

RSA-STH-5% - Sensor de Temperatura e Umidade Ambiente



SPECIFICATIONS

Relative Humidity Range: 0 to 100% RH.

Temperature Range: -40 to 140°F (-40 to 60°C) for thermistor and RTD sensors.

-20 to 140°F (-28.9 to 60°C) for solid state temperature sensors.

Dew Point Temperature Range: -20 to 140°F (-28.9 to 60°C); 0 to 100°F (-17.8 to 37.8°C); 40 to 90°F (4.4 to 32.3°C); -4 to 140°F (-20 to 60°C) field selectable ranges.

Accuracy:

RH: Model $\pm 2\%$ 10-90% RH @ 25°C; Model 3 $\pm 3\%$ 20-80% RH @ 25°C.

Thermistor Temperature Sensor: $\pm 0.4^\circ\text{F}$ @ 77°F ($\pm 0.22^\circ\text{C}$ @ 25°C).

RTD Temperature Sensor: DIN Class B; $\pm 0.54^\circ\text{F}$ @ 32°F ($\pm 0.3^\circ\text{C}$ @ 0°C).

Solid State Temperature Sensor: $\pm 0.9^\circ\text{F}$ @ 72°F ($\pm 0.3^\circ\text{C}$ @ 25°C).

Hysteresis: $\pm 1\%$.

Repeatability: $\pm 0.1\%$ typical.

Temperature Limits:

Operating: -40 to 140°F (-40 to 60°C).

Storage: -40 to 176°F (-40 to 80°C).

Compensated Temperature Range: -4 to 140°F (-20 to 60°C).

4-20 mA Loop Powered Models:

Power Requirements: 10-35 VDC.

Output Signal: 4-20 mA, 2 channels for humidity/solid state temperature sensor models (loop powered on RH). Switch selectable RH/dew point. Switch selectable normal or reverse output.

0-5/10V Output Models:

Power Requirements: 15-35 VDC or 15-29 VAC.

Output Load: 5 mA max., 2 channels for humidity/solid state temperature sensor models. Switch selectable 0-10V/2-10V or 0-5V/1-5V output. Switch selectable RH/dew point. Switch selectable normal or reverse output.

Solid State Temperature Sensor Output Ranges: Switch selectable, -20 to 140°F (-28.9 to 60°C); 0 to 100°F (-17.8 to 37.8°C); 40 to 90°F (4.4 to 32.3°C); -4 to 140°F (-20 to 60°C).

Response Time: 15 seconds.

Electrical Connections: Screw terminal block.

Drift: $<1\%$ RH/year.

RH Sensor: Capacitance polymer.

Enclosure Material: White polycarbonate.

Display: Optional LCD, backlit on 0-5/10V models. Switch selectable %RH or dew point, °F/°C.

Display Resolution: RH: 1%; Temperature: 0.1°F (0.1°C); Dew Point: 1°F (1°C).

Weight: 0.3 lb (0.14 kg).

Agency Approvals: CE.



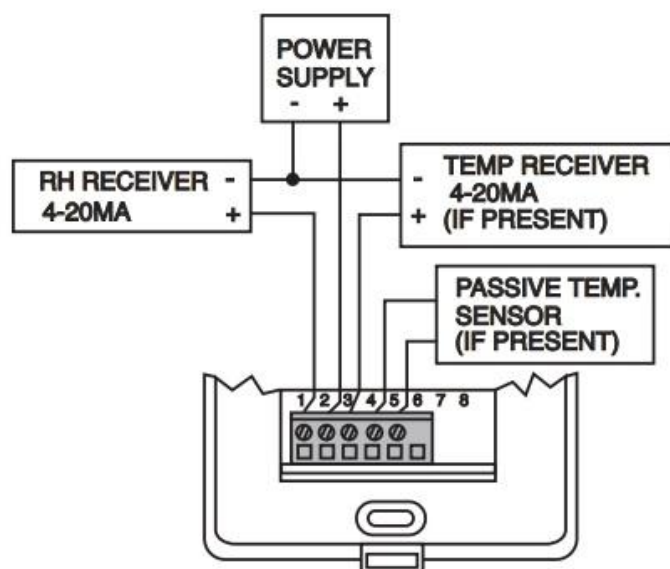
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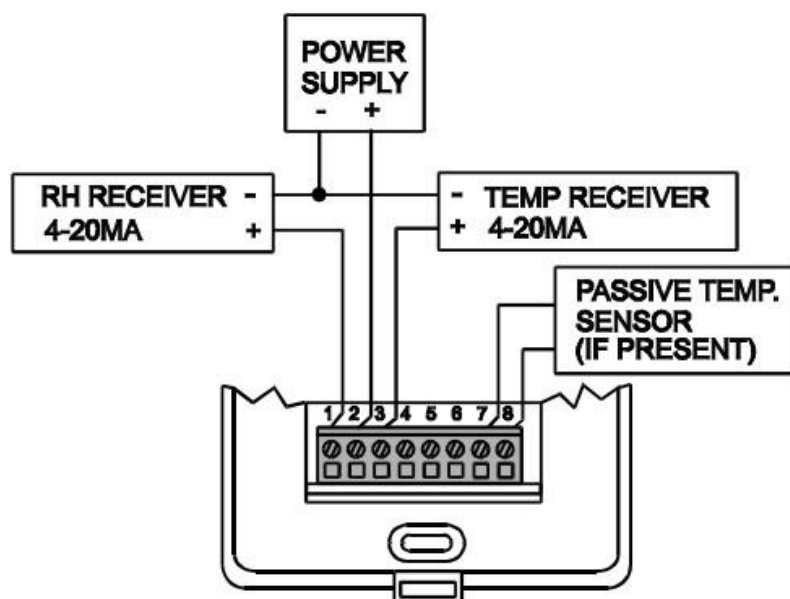
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ESQUEMA DE LIGAÇÃO OPÇÃO 1:



ESQUEMA DE LIGAÇÃO OPÇÃO 2:





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ESQUEMA DE LIGAÇÃO OPÇÃO 3:

