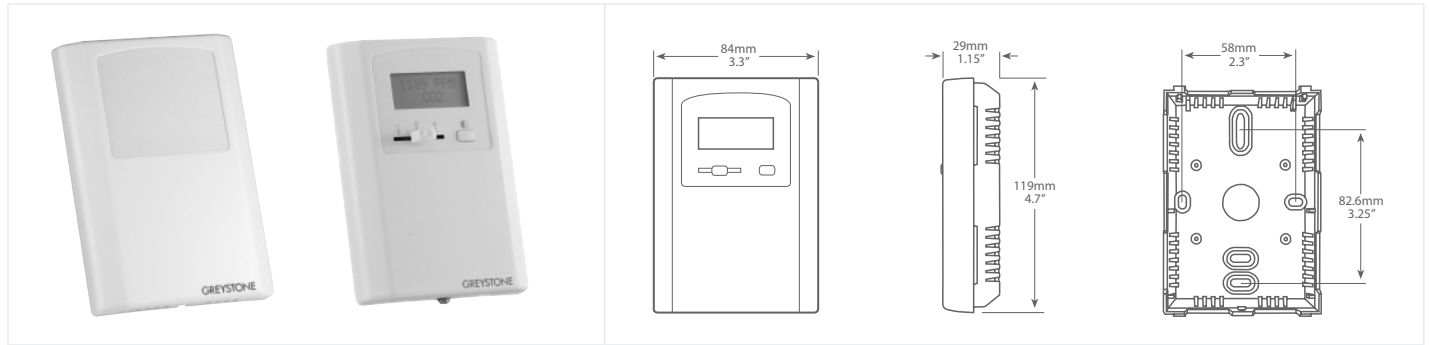




## ROOM TEMPERATURE SENSOR



### TSRC SERIES

### PRODUCT DESCRIPTION

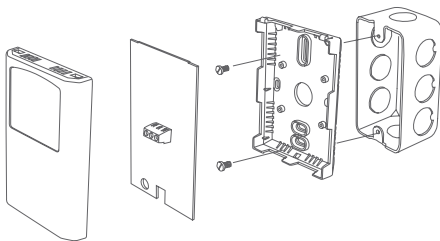
The TSRC series is an attractive, low profile enclosure that incorporates a precision temperature sensor used to monitor room temperatures. Additional options are available that include setpoint adjustment, manual override, fan speed and LCD.

### TYPICAL INSTALLATION

**For complete installation and wiring details, please refer to the product installation instructions.**

The TSRC series can be mounted directly to a single gang electrical box or directly to a wall. Insulating foam is adhered to the back of the enclosure to provide a thermal barrier from internal wall temperatures.

A terminal block connection is provided for connection to the Building Automation System. There are several wiring configurations depending on the options selected.



### SPECIFICATIONS

SENSING ELEMENT	Thermistor or RTD (see ordering chart)
SENSOR ACCURACY	<b>Thermistors:</b> $\pm 0.2^{\circ}\text{C}$ ( $\pm 0.36^{\circ}\text{F}$ ) @ $25^{\circ}\text{C}$ ( $77^{\circ}\text{F}$ ) <b>Platinum RTD's:</b> $\pm 0.3^{\circ}\text{C}$ ( $\pm 0.54^{\circ}\text{F}$ ) @ $0^{\circ}\text{C}$ ( $32^{\circ}\text{F}$ ) <b>Nickel RTD's:</b> $\pm 0.4^{\circ}\text{C}$ ( $\pm 0.72^{\circ}\text{F}$ ) @ $0^{\circ}\text{C}$ ( $32^{\circ}\text{F}$ )
AMBIENT OPERATING RANGE	0 to $50^{\circ}\text{C}$ ( $32$ to $122^{\circ}\text{F}$ ), 5 to 95 %RH non-condensing
ENCLOSURE	White ABS, IP30 (NEMA 1) 84mm W x 119mm H x 29mm D (3.3" x 4.7" x 1.15")
WIRING CONNECTIONS	Sensor Only: Pigtail, 2 or 3 wire With Options: Terminal block (14 to 22 AWG)
OPTIONAL OVERRIDE SWITCH	Front panel, momentary pushbutton, N.O., SPST, 50 mA @ 12 Vdc
OPTIONAL SETPOINT SLIDE POT	<b>Range:</b> Front panel pot as resistive output, 0-10,000 $\Omega$ standard <b>Custom Spans Available:</b> 1K, 2K, 5K, 10K, 20 K $\Omega$
OPTIONAL FAN SPEED SWITCH	<b>Range:</b> Off, Auto, Low, Medium, High <b>Signal:</b> Resistive - 0, 2, 4, 6, 8 & 10 K $\Omega$ (custom ranges available) <b>Type:</b> Side mounted, 5 position slide switch <b>Designators:</b> Off, Auto, Low, Medium, High
OPTIONAL LED INPUT	<b>Signal Type:</b> Active high, low or 2 wire, 5V current limit standard <b>Colors:</b> Red (R), Green (G), or Yellow (Y) <b>Power Supply:</b> 5 Vdc standard, 10 Vdc or 24 Vdc optional
OPTIONAL COMMUNICATION JACKS	4 pin header to 4 pin terminal block
OPTIONAL LCD DISPLAY	<b>Power Supply:</b> 12-24 Vdc / 24 Vac $\pm 10\%$ <b>Protection Circuitry:</b> Reverse voltage protected <b>Consumption @ 24 Vdc:</b> 13 mA max (no backlight) 23 mA max (with backlight) <b>Range:</b> 0.0 - $35.0^{\circ}\text{C}$ or $32.0$ - $95.0^{\circ}\text{F}$ selectable via jumper <b>Resolution:</b> $0.1^{\circ}\text{C}/^{\circ}\text{F}$ <b>Size:</b> 38.1mm W x 16.5mm H (1.5" x 0.65") <b>Digit Height:</b> 11.43mm (0.45") <b>Symbols:</b> $^{\circ}\text{C}$ , $^{\circ}\text{F}$ , OCC <b>Backlight:</b> Enable or disable via jumper
OPTIONAL OCCUPIED INPUT	<b>Signal Input:</b> Digital input, 0-5 Vdc standard, active low <b>Action:</b> Causes "OCC" segment to light on LCD
COUNTRY OF ORIGIN	Canada

