

ROOM TEMPERATURE SENSOR 84mm 3.3° 1.15° 2.3° 119mm 4.7° 4.7° 3.25° 3.25° 3.25°

PRODUCT DESCRIPTION

TSRC SERIES

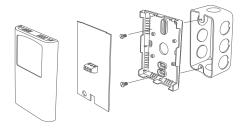
The TSRC series is an attractive, low profile enclosure that incorporates a precision temperature sensor used to monitor room temperatures. Additional options are available that include setpoint adjustment, manual override, fan speed and LCD.

TYPICAL INSTALLATION

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

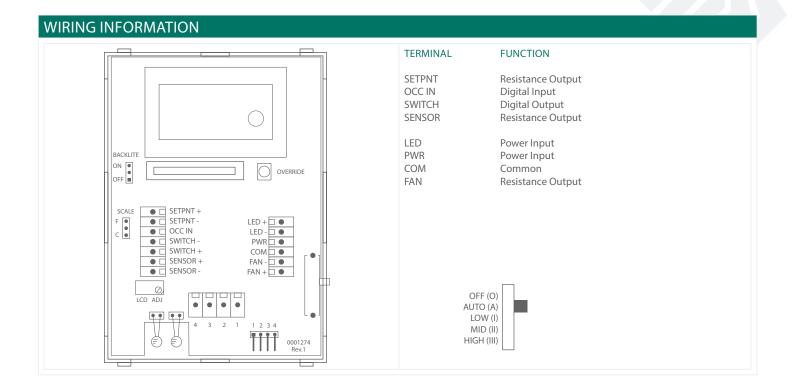
The TSRC series can be mounted directly to a single gang electrical box or directly to a wall. Insulating foam is adhered to the back of the enclosure to provide a thermal barrier from internal wall temperatures.

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



SENSING ELEMENT SENSOR ACCURACY Thermistor or RTD (see ordering Thermistors: ±0.2°C (±0.36°F) @ Platinum RTD's: ±0.3°C (±0.54° Nickel RTD's: ±0.4°C (±0.72°F) @ Nickel RTD's: ±0.3°C (±0.54°F) @ Nickel RTD's: ±0.3°C (±0.72°F) @ Nic	⁹ 25°C (77°F) F) @ 0°C (32°F) ₱ 0°C (32°F) 6RH non-condensing
Platinum RTD's: ±0.3°C (±0.54° Nickel RTD's: ±0.4°C (±0.72°F) @ AMBIENT OPERATING RANGE 0 to 50°C (32 to 122°F), 5 to 95 9 ENCLOSURE White ABS, IP30 (NEMA 1) 84mm W x 119mm H x 29mm D WIRING CONNECTIONS Sensor Only: Pigtail, 2 or 3 wire With Options: Terminal block (1)	F) @ 0°C (32°F) @ 0°C (32°F) 6RH non-condensing
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84mm W x 119mm H x 29mm D WIRING CONNECTIONS Sensor Only: Pigtail, 2 or 3 wire With Options: Terminal block (1	(3.3" x 4.7" x 1.15")
With Options: Terminal block (1-	
OPTIONAL OVERRIDE SWITCH Front panel, momentary pushb	4 to 22 AWG)
	utton, N.O., SPST, 50 mA @ 12 Vdc
OPTIONAL SETPOINT SLIDE POT Range: Front panel pot as resist Custom Spans Available: 1K, 2	tive output, 0-10,000Ω standard K, 5K, 10K, 20 KΩ
OPTIONAL FAN SPEED SWITCH Range: Off, Auto, Low, Medium Signal: Resistive - 0, 2, 4, 6 & 8 k Type: Side mounted, 5 position Designators: Off, Auto, Low, Me	Ω (custom ranges available) slide switch
OPTIONAL LED INPUT Signal Type: Active high, low o Colors: Red (R), Green (G), or Ye Power Supply: 5 Vdc standard,	
OPTIONAL COMMUNICATION JACKS 4 pin header to 4 pin terminal b	lock
OPTIONAL LCD DISPLAY Power Supply: 12-24 Vdc / 24 V Protection Circuitry: Reverse v Consumption @ 24 Vdc: 13 mA 23 mA Range: 0.0 - 35.0°C or 32.0 - 95.0 Resolution: 0.1°C/°F Size: 38.1mm W x 16.5mm H (1. Digit Height: 11.43mm (0.45") Symbols: °C, °F, OCC Backlight: Enable or disable via	roltage protected A max (no backlight) max (with backlight) 0°F selectable via jumper 15″ x 0.65″)
OPTIONAL OCCUPIED INPUT Signal Input: Digital input, 0-5 Action: Causes "OCC" segment:	
COUNTRY OF ORIGIN Canada	to light on LCD





ORDERING			PART NUMBER
PRODUCT	TSRC	Room Temperature Sensor	TSRC
SENSOR	2 5 6 7 8 12 13 14 20 24 59	100 Ω Platinum, IEC 751, 385 Alpha, thin film 1801 Ω NTC Thermistor, $\pm 0.2^{\circ}$ C 3000 Ω NTC Thermistor, $\pm 0.2^{\circ}$ C 10,000 Ω Type 3, NTC Thermistor, $\pm 0.2^{\circ}$ C 12.252 K Ω NTC Thermistor, $\pm 0.2^{\circ}$ C 2.252 K Ω NTC Thermistor, $\pm 0.2^{\circ}$ C 1000 Ω Platinum, IEC 751, 385 Alpha, thin film 1000 Ω Nickel, Class B, DIN 43760 10,000 Ω Type 3, NTC Thermistor, $\pm 0.2^{\circ}$ C c/w 11K shunt resistor 20,000 Ω NTC Thermistor, $\pm 0.2^{\circ}$ C 10,000 Ω Type 2, NTC Thermistor, $\pm 0.2^{\circ}$ C 10,000 Ω Type 2, NTC Thermistor, $\pm 0.2^{\circ}$ C 10,000 Ω @ 25°C, ± 1 %, B = 3435 ± 1 % (25/85)	
OPTIONS (MULTIPLE SELECTIONS CAN BE MADE)	P S C F Y R G	0-10,000 Ω linear slide pot for set point control Exposed push button momentary switch - N.O. 3 digit LCD temperature indicator °C / °F selectable Fan speed switch (Auto, Off, Low, Mid, High) Yellow LED (n/a if C option is selected) Red LED (n/a if C option selected) Green LED (n/a if C option selected) External jack for remote system access (4 pin header)	

 $NOTE: Greystone\ Energy\ Systems, Inc.\ reserves\ the\ right\ to\ make\ design\ modifications\ without\ prior\ notice.$



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