



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

SPECIFICATION:

Sensing Element.....Various thermistors and RTDs
 Sensor Accuracy.....Thermistors: $\pm 0.2^{\circ}\text{C}$ ($\pm 0.36^{\circ}\text{F}$),
 0 to 70°C (32 to 158°F)
 Platinum RTD's: $\pm 0.3^{\circ}\text{C}$ ($\pm 0.54^{\circ}\text{F}$)
 @ 0°C (32°F)
 Nickel RTD's: $\pm 0.4^{\circ}\text{C}$ ($\pm 0.72^{\circ}\text{F}$)
 @ 0°C (32°F)
 Operating Conditions..... 0 - 50°C (32 - 122°F),
 0 - 95% RH non-condensing
 Wiring Connections.....Screw terminal block (14 to 22 AWG)
 Sensor only - Pigtail, 2 or 3 wire
 Enclosure.....Wall mount enclosure,
 White ABS - IP30 (NEMA 1)
 $84\text{ w} \times 119\text{ h} \times 29\text{ d mm}$ ($3.3\text{''} \times 4.7\text{''} \times 1.15\text{''}$)

OPTIONS:

Override Switch

Switch Type.....Front panel, momentary pushbutton,
 N.O., SPST, 50 mA @ 12 Vdc

Fan Speed Switch

Range.....Off, Auto, Low, Medium, High
 Signal.....Resistance: 0, 2, 4, 6 and 8 K Ω
 standard (Custom ranges available)

Setpoint Slide Pot

Range.....Front panel pot as resistive output,
 0 - $10\text{ K}\Omega$ standard
 Custom spans available.....1K, 2K, 5K, 10K or 20K Ω

Occupied Input

Signal Type.....Digital input, 0/5 Vdc standard, active low
 Action.....Causes "OCC" segment to light on LCD

LED Input

Signal Type.....Active high, low or 2-wire,
 5 V current limit standard
 LED Colors.....Red, Green or Yellow
 Power Supply..... 5 Vdc standard, 10 Vdc or 24 Vdc optional

LCD Display

Power Supply..... 12 - 24 Vdc / $24\text{ Vac} \pm 10\%$
 (non-isolated half-wave rectified)
 Consumption @ 24 Vdc 13 mA max (no backlight),
 23 mA max (with backlight)
 Protection Circuitry.....Reverse voltage protected
 Range..... 0.0 - 35.0°C or 32.0 - 95.0°F
 jumper selectable
 Resolution..... $0.1^{\circ}\text{C}/^{\circ}\text{F}$
 Display Size..... $38.1\text{ w} \times 16.5\text{ h mm}$ ($1.5\text{''} \times 0.65\text{''}$)
 Digit Height..... 11.43 mm (0.45'')
 Symbols..... $^{\circ}\text{C}$, $^{\circ}\text{F}$, OCC
 Backlight.....Enable or disable via jumper



PART NUMBER SELECTED

PRODUCT SELECTION INFORMATION:

MODEL	Product Description
TSRC	Room Temperature Sensor

CODE	Sensor
2	100 Ω Platinum, IEC 751, 385 Alpha, thin film
5	1801 Ω , NTC Thermistor, $\pm 0.2^{\circ}\text{C}$
6	3000 Ω , NTC Thermistor, $\pm 0.2^{\circ}\text{C}$
7	10,000 Ω , type 3, NTC Thermistor, $\pm 0.2^{\circ}\text{C}$
8	2.252K Ω , NTC Thermistor, $\pm 0.2^{\circ}\text{C}$
12	1000 Ω Platinum, IEC 751, 385 Alpha, thin film
13	1000 Ω Nickel, Class B, DIN 43760
14	10,000 Ω , type 3, NTC Thermistor, $\pm 0.2^{\circ}\text{C}$ c/w 11K shunt resistor
20	20,000 Ω , NTC Thermistor, $\pm 0.2^{\circ}\text{C}$
24	10,000 Ω , type 2, NTC Thermistor, $\pm 0.2^{\circ}\text{C}$

CODE	Options (Multiple selections can be made)
P	0-10K linear slide pot for set point control
S	Exposed push button momentary switch - N.O.
C	3-digit LCD temperature indicator $^{\circ}\text{C}$ / $^{\circ}\text{F}$ selectable
F	Fan speed switch (Auto, Off, Low, Mid, High)
Y	Yellow LED (n/a if C option selected)
R	Red LED (n/a if C option selected)
G	Green LED (n/a if C option selected)
E	External jack for remote system access (4-pin header)
GS	Greystone Customized Version (TSRC*GS***)

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

Due to the many possible configurations, special part numbers may be required. Please contact Greystone for more information

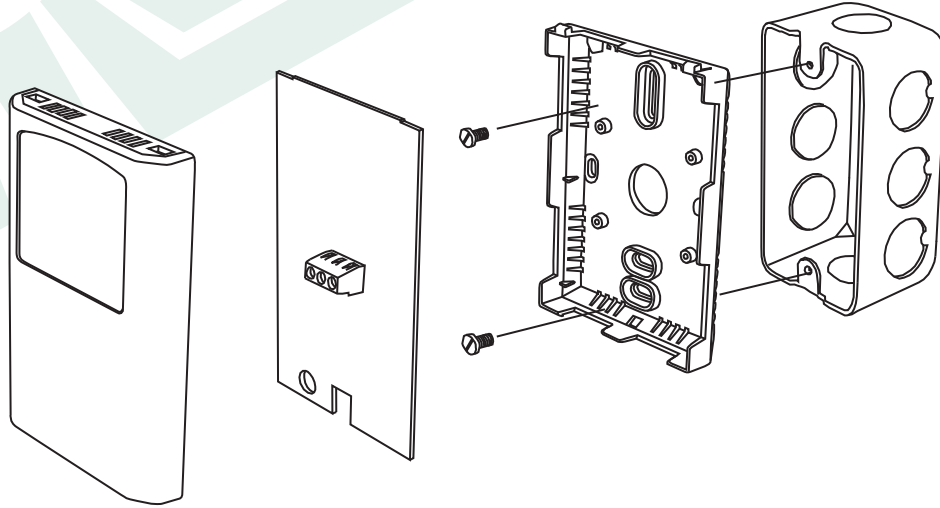
TSRC*GS* Description:**

TYPICAL INSTALLATION:

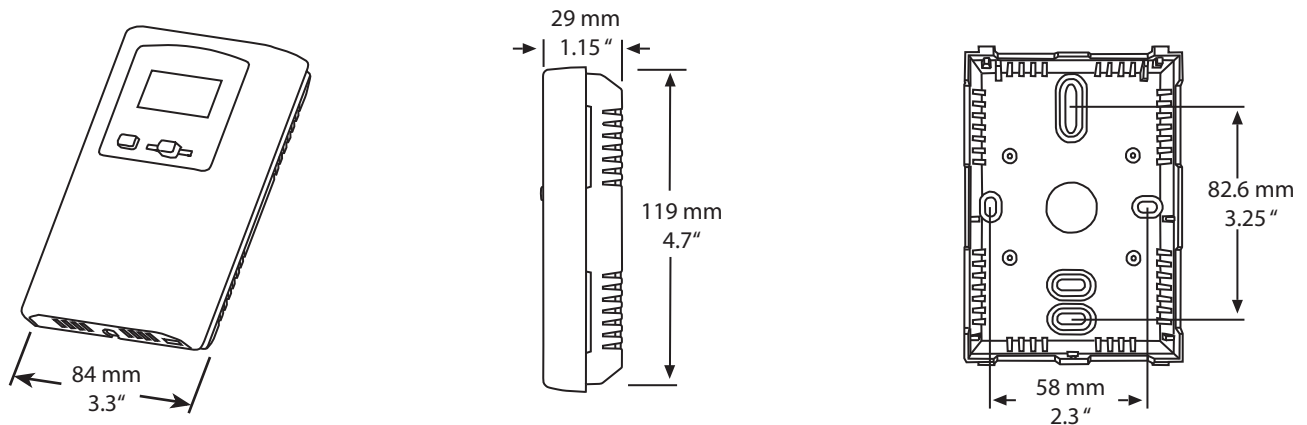
For complete installation and wiring details, please refer to the product installation instructions.

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.

For sensor only models a 2 wire or 3 wire pigtail is used for connection to the Building Automation System. In models with options such as setpoint adjustment or manual override, a terminal block connection is provided.



DIMENSIONS:



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RoHS
COMPLIANT



Greystone Energy Systems Inc. is one of North America's largest manufacturers of HVAC sensors and transmitters for Building Automation Management Systems.

We have conscientiously established a worldwide reputation as an industry leader by maintaining leading-edge design technology, prompt technical support, and a commitment to on-time deliveries. We take pride in our Quality Management System, assuring our customers of consistent product reliability.