GREYSTONE
ENERGY SYSTEMS INC

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 RTD's
Sensor Accuracy .... **Thermistors:** ±0.2°C (±0.36°F) @ 25°C (77°F)
    Platinum RTD's: ±0.3°C (±0.54°F) @ 0°C (32°F)
    Nickel RTD's: ±0.4°C (±0.72°F) @ 0°C (32°F)
Operating Conditions .... 0 to 50°C (32 to 122°F)
    0 to 95 %RH non-condensing
Wiring Connections .... Screw terminal block (14 to 22 AWG)
Enclosure .... White ABS, IP30 (NEMA 1)
    84mm W x 119H x 29mm D (3.3" x 4.7" x 1.15")
Country of Origin .... Canada

FAN SPEED SWITCH
Range .... 5 Position-Off, Auto, Low, Medium, High
Signal .... Resistive - 0, 2, 4, 6, 8 KΩ

SETPOINT SLIDE POT
Range .... Front panel pot as resistive output, 0-10KΩ standard
Custom Spans Available .. 1K, 2K, 5K, 10K, 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 Vac ±10%
Consumption @ 24 Vdc .... No Backlight: 13 mA max
    With Backlight: 23 mA max
Range .... 0.0 - 35.0°C or 32.0 - 95.0°F
    selectable via jumper
Resolution .... 0.1°C/°F
Size .... 38.1mm W x 16.5mm H (1.5" x 0.65")
Digit Height .... 11.43mm (0.45")
Symbols .... °C, °F, OCC
Backlight .... Enable or disable via jumper

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

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, 3 wire
5	1801 Ω NTC Thermistor, ±0.2°C
6	3000 Ω, NTC Thermistor, ±0.2°C
7	10,000 Ω, Type 3, NTC Thermistor, ±0.2°C
8	2.252K Ω, NTC Thermistor, ±0.2°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, ±0.2°C c/w 11K shunt resistor
20	20,000 Ω, NTC Thermistor, ±0.2°C
24	10,000 Ω, Type 2, NTC Thermistor, ±0.2°C
59	10,000 Ω @ 25°C, ±1%, B = 3435 ±1% (25/85)

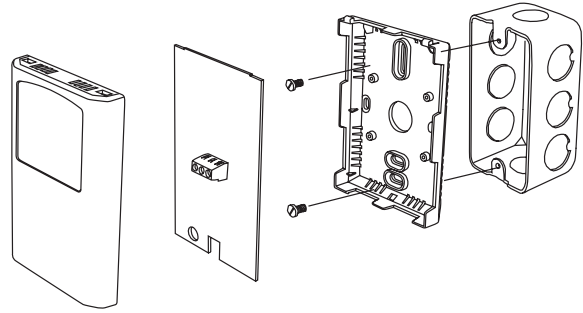| CODE	Options (Multiple selections can be made)
P	0-10KΩ linear slide pot for set point control
S	Exposed push button momentary switch - N.O.
C	3 digit LCD temperature indicator °C / °F selectable
F	Fan speed switch (Auto, Off, Low, Mid, High)
Y	Yellow LED (n/a if C option selected)
R	Red LED (n/a if C option selected)
G	Green LED (n/a if C option selected)
E	External jack for remote system access (4 pin header)

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

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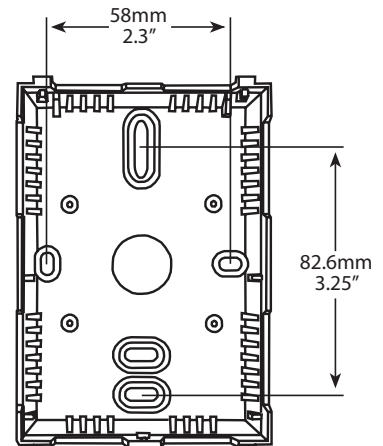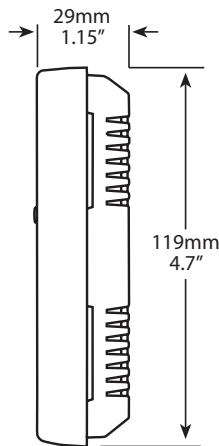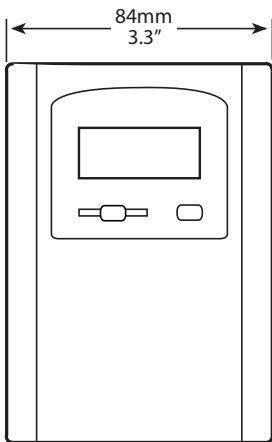
TYPICAL INSTALLATION:

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.

DIMENSIONS:

84mm
3.3"

29mm
1.15"

119mm
4.7"

58mm
2.3"

82.6mm
3.25"

GREYSTONE
E N E R G Y   S Y S T E M S   I N C

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RoHS
COMPLIANT

Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC/R 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 which is ISO 9001 certified, assuring our customers of consistent product reliability.

GREYSTONE HAS AN **ISO 9001** REGISTERED QUALITY SYSTEM