

SPACE TEMPERATURE SENSOR TESPRC Series

The TESPRC temperature sensor with resistive setpoint control is available in an attractive wall mount enclosure and can be configured with various options. It is available with various curve-matched thermistors or RTD sensors to measure temperature.

A back-lit LCD displays room temperature, setpoint on demand and occupancy. Several operating parameters can be programmed using a keypad and on-board jumpers configure the °C/F display or disable the backlight.

Available options include a dry-contact override switch, a five position fan speed switch and a jack for a network connection. Custom logos or enclosure engraving are also available.



SPECIFICATION:

Power Supply24 Vac/dc ±10% (non-isolated half-wave rectified) Consumption20 mA max. Operating Conditions0 - 50°C (32 - 122°F), 0-95% RH non-condensing EnclosureWhite ABS - IP30 (NEMA 1) 84 w x 119 h x 29 d mm (3.3" x 4.7" x 1.15")

Wiring ConnectionsScrew terminal block (14 to 22 AWG)

Temperature Signal

.Several thermistors or RTD's available Sensor..... See ordering information .Thermistors: ±0.2°C @ 25°C Sensor Accuracy (±0.36°F @ 77°F) Platinum RTD's: ±0.3°C @ 0°C (±0.54°F @ 32°F) Nickel RTD's: ±0.4°C @ 0°C (±0.72°F @ 32°F)

Setpoint Adjustment

RangeUp/Down pushbuttons for ± 10 resistive steps SignalSeveral resistive ranges available See ordering informationProgrammable, 20-23 °C or 68-73 °F Midpoint LCD IncrementSetpoint step size is 0.5 °C or 1.0 °F ...Programmable, direct or Action reverse acting

LCD Display

selectable via jumper Display Resolution0.1° C/F Display Size38.1 w x 16.5 h mm H (1.5" x 0.65") Digit Height11.43 mm (0.45") Symbols°C, °F, OCC BacklightEnable or disable via jumper

Optional Override Switch (BS)

Momentary pushbuttonN.O., SPST, 50 mA @12 Vdc

Occupied Input

Signal typeDigital input, 0/5 Vdc standard, active lowCauses "OCC" segment to light on LCD

Optional Communication Jack (AE)

4 pin4 Pin header. Requires HHTA -Hand Held Adapter

Optional Fan Speed Switch (FS)

Range5 Position-Off, Auto, Low, Medium, HighResistive - 0, 2, 4, 6, 8 ΚΩ Signal

PART NUMBER SELECTED

TESPRC

PRODUCT SELECTION INFORMATION:

MODEL **Product Description TESPRC** Space Temperature Sensor w/ Setpoint Adjustment & LCD

ı	CODE	Sensor
	2	100 Ω Plat. IEC 751, 385 Alpha, thin film
	5	1801 Ω, NTC Thermistor, ±0.2 C
ı	6	3000 Ω, NTC Thermistor, ±0.2 C
ı	7	10,000 Ω , type 3, NTC Thermistor, ± 0.2 C
ı	8	2.252K Ω, NTC Thermistor, ±0.2 C
ı	12	1000 Ω Platinum, IEC 751, 385 Alpha, thin film
ı	13	1000 Ω Nickel, Class B, DIN 43760
ı	14	10,000 Ω , type 3, NTC Thermistor, ±0.2 C c/w 11K shunt resistor
ı	20	20,000 Ω , NTC Thermistor, ±0.2 C
ı	24	10,000 Ω , type 2, NTC Thermistor, ±0.2 C

CODE	Resistance Output (Range 16-26°C in 0.5°C Increments or 60-80°F in 1°F Increments)
Α	0 - 2000 ohms
В	0 - 10,000 ohms
С	475 - 10475 ohms
D	500 - 1500 ohms
E	2000 - 3000 ohms
F	4104 - 3152 ohms
G	8000.7 - 3107.3 ohms
Н	20,000 - 30,000 ohms

CODE	Options
AE BS	4 Pin molex extrenal jack for communications Exposed override switch with LCD indication option (OCC)
FS	5 position fan switch Off/Auto/Low/Med/High

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 Greytsone for more information

BS

Α









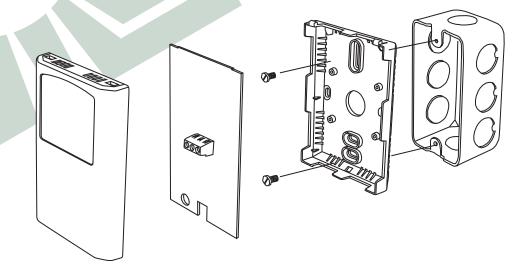


TYPICAL INSTALLATION:

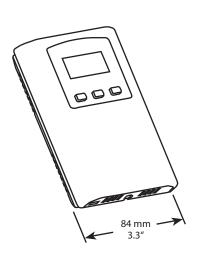
For complete installation and wiring details, please refer to the product installation instructions.

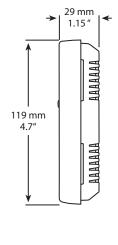
The TESPRC series can be mounted directly to a single gang electrical box or directly to a wall. Insulating foam is adhered to the back of the enclosure to provide a thermal barrier from internal wall temperatures.

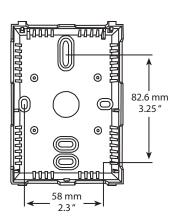
A terminal block connection is provided for connection to the Building Automation System. There are several wiring configurations depending on the options selected.



DIMENSIONS:







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