

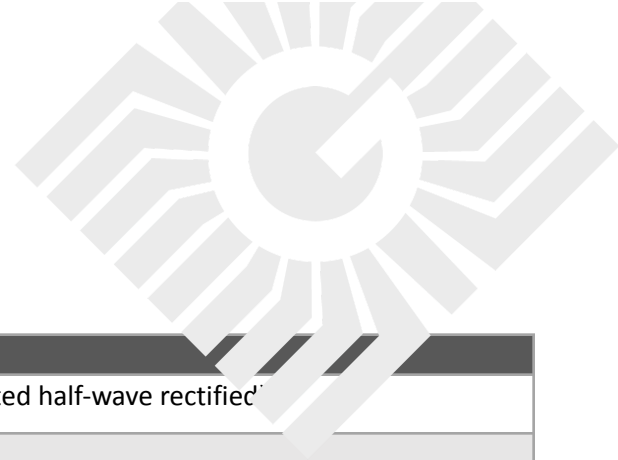
ROOM TEMPERATURE SENSOR

TSPC Series

The TSPC room 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.

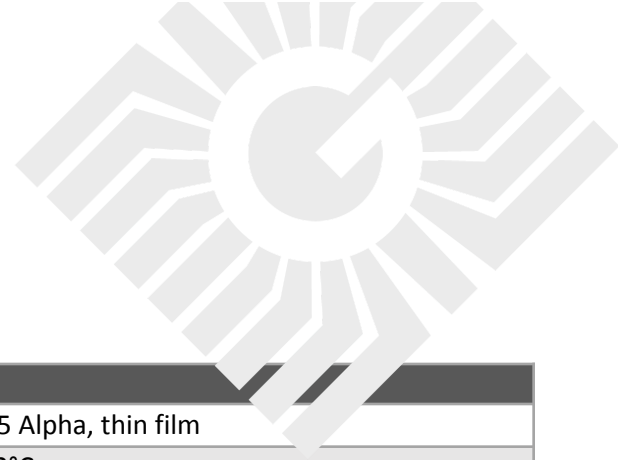
PRODUCT HIGHLIGHTS

- Precision Thermistor/RTD sensing elements
- Compact form factor
- Mountable directly to a single gang electrical box or directly to a wall
- Customer branding available



PRODUCT SPECIFICATIONS

DESCRIPTION	ENGINEERING SPEC
POWER SUPPLY	24 Vac / dc $\pm 10\%$ (non-isolated half-wave rectified)
CONSUMPTION	20 mA max
OPERATING ENVIRONMENT	0 to 50°C (32 to 122°F) 0 to 95 %RH non-condensing
WIRING CONNECTION	Screw terminal block (14 to 22 AWG)
ENCLOSURE	White ABS, IP30 (NEMA 1)
TEMPERATURE SENSORS/ELEMENTS	Various Thermistor or RTD – Refer to Sensor table
SENSOR ACCURACY	Thermistors: $\pm 0.2^\circ\text{C}$, 0 to 70°C ($\pm 0.36^\circ\text{F}$, 32 to 158°F) Platinum RTD's: $\pm 0.3^\circ\text{C}$ @ 0°C ($\pm 0.54^\circ\text{F}$ @ 32°F) Nickel RTD's: $\pm 0.4^\circ\text{C}$ @ 0°C ($\pm 0.72^\circ\text{F}$ @ 32°F)
SETPOINT ADJUSTMENT	Up/Down pushbuttons for ± 10 resistive steps Signal: Several resistive ranges available Midpoint: Programmable, 20 to 23°C or 68 to 73°F LCD Increment: Setpoint step size is 0.5°C or 1.0°F Action: Programmable, direct or reverse acting
LCD DISPLAY	Range: 0.0 - 35.0°C or 32.0 - 95.0°F selectable via jumper Display Resolution: 0.5°C/°F Display 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
OPTIONAL OVERRIDE SWITCH (S)	Momentary Pushbutton .. N.O., SPST, 50 mA @ 12 Vdc
OCCUPIED INPUT	Signal Type: Digital input, 0/5 Vdc standard, active low Action: Causes "OCC" segment to light on LCD
OPTIONAL COMMUNICATION JACK (E)	4 pin header; Requires HHTA - Hand Held Adapter
OPTIONAL FAN SPEED SWITCH (F)	Range: 5 Position-Off, Auto, Low, Medium, High Signal: Resistive - 0, 2, 4, 6, 8 K Ω
COUNTRY OF ORIGIN	Canada



SENSORS

DESCRIPTION	ENGINEERING SPEC
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, $\pm 0.2^\circ\text{C}$
59	10,000 Ω @ 25°C , $\pm 1\%$, B = $3435 \pm 1\%$ (25/85)