

Remote temperature sensor

The remote temperature sensor mounts in a location that will measure only the temperature to be sensed without any external heating or cooling sources influencing the sensor, often in the return air stream. When using this sensor in conjunction with a non-digital thermostat, jumper JP1 must be removed to disable the onboard sensor.

Materials

- Thermistor: chip thermistor
- Case: copper
- Filler: epoxy resin
- Leads: UL 2468, 22 AWG, 300 Volt, 105 °C, black zipcord

Electrical characteristics

- Zero power resistance at 77 °F (25 °C): $R_{25}=10.0k\Omega\pm 3\%$
- B-value: $B_{25/85}=3960K\pm 2\%$
- Operating temperature range: -22 °F to +221 °F (-30 °C to +105 °C)

RT table

Temperature	Resistance (k Ω)
32 °F (0 °C)	32.790
50 °F (10 °C)	19.930
68 °F (20 °C)	12.500
86 °F (30 °C)	8.056
104 °F (40 °C)	5.326
122 °F (50 °C)	3.604
140 °F (60 °C)	2.493

