

TM-950 – Open Thermistor Sensor

- ▶ Hermetically Sealed
- ▶ High Pressure Capability
- ▶ Direct Reading Ceramic Thermistor
- ▶ Ideal For Non-Conductive Oils & Refrigerants

The Gems TM-950 is an Open Thermistor Sensor ideal for temperature sensing in non-conductive liquids, such as oil and refrigerants. It utilizes a proprietary fused glass hermetic seal, an axial feedthrough design to provide exceptional high pressure, and temperature sensing capability.

Specifications

Temperature Capability	-40°F to +250°F (-40°C to +125°C)
Referenced Temperature Range	32°F to 100°F (0°C to 38°C)
Setting Tolerance	±6°F (±3°C)
Wetted Parts	
Housing	Zinc Plated Steel
Thermistor	Ceramic, Tinned Copper
Fused Hermetic Seal	Soda Lime Glass
Spacer Disc	PTFE
Electrical Termination	Flying Leads IP65, 18 AWG PTFE Insulated, 6.5"
Maximum Pressure	450 PSIG ¹

Note:

1. Higher Pressure Capability Available Upon Request.

Sensor Color Codes

Color Code	Sensor Type
Green	50 Ohms
Red	100 Ohms

Typical Resistance Values at Referenced Temperatures

Media Temperature	Resistance Reading (Ohms)	
	Green	Red
@ 32°F (0°C)	124.0 – 161.0	242.1 – 321
@ 75°F (24°C)	48.5 – 59.5	97 – 121
@ 90°F (32°C)	31.5 – 42.5	65.6 – 87

How To Order

Select Part Number based on Thermistor, Nominal Value and Shrink Tubing Color.

Nominal Thermistor Value	Shrink Tubing Color	Part Number
50 Ohm	Green	243650
100 Ohm	Red	243700

Note: Other alternate Thermistor values with R-T curves are available upon request.



Dimensions

