

# 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

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

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	<b>243650</b>
100 Ohm	Red	<b>243700</b>

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



## Dimensions

