



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

