

AutoPSI-HT™

Pressure Sensor with Signal Conditioner Rated for 125°C

Utilizing Optrand's proven AutoPSI design for high-temperature pressure measurements, the AutoPSI-HT sensors come with the following standard features:

- An integrated **signal conditioner rated for continuous operation at temperatures up to 125°C (257°F)**.
- Sensor tip temperatures up to 350°C (662°F) continuous operation.
- Immune to Electromagnetic Interference (EMI), Radio Frequency Interference (RFI), explosive and chemically volatile media.
- **Long-life and low-cost.**



Specifications

<i>Pressure Range</i>	0-7 bar (~1,000 psi) through 2,000 bar (~30,000 psi)
<i>Over Pressure</i>	2 x Pressure Range or 35,000 psi, whichever is less
<i>Non-Linearity & Hysteresis</i>	±0.5% FS under non-combustion conditions ±1% FS under combustion conditions
<i>Sensor Output Signal</i>	Analog, 0.5V to 5V
<i>Diagnostic Output Signal</i>	Analog, 0V to 3.6V
<i>Diaphragm Resonant Frequency</i>	≥120kHz
<i>Frequency Range</i>	0.01 Hz to 15 kHz or 0.01 Hz to 5 kHz
<i>Sensor Housing Temperature Range</i>	-40° to 360°C
<i>Fiber-Optic Cable Operating Temperature</i>	-40° to 200°C
<i>Fiber-Optic Cable Length</i>	2m (6.5') Standard; Custom Length Optional
<i>Fiber-Optic Cable Minimum Bending Radius</i>	5mm (5/16")
<i>Sensor Operational Mode</i>	Sealed Gauge
<i>Signal Conditioner Operating Temperature Range</i>	-20°C to 125°C (~260°F)

<i>Temperature Coefficient of Sensitivity</i>	±0.003%/°C ("-TC" version) or ±0.03%/°C ("-S" version)
<i>Pressure Media</i>	Gaseous or Liquid
<i>Output Impedance</i>	250 ohm