## MINIATURE RUGGEDIZED HIGH TEMPERATURE IS® PRESSURE TRANSDUCER

- XTEL-190 (M) SERIES
- Easy Installation
- Patented Leadless Technology VIS<sup>®</sup>
- High Natural Frequency
- High Temperature Up To 525°F

The ruggedness of this sensor has not compromised its performance. It was designed for ease of installation and will operate properly in any medium compatible with 15-5 SS or SiO<sub>2</sub>. Coupled with high temperature, its Patented Leadless Construction makes it possible for the sensing unit to be installed in such a way that will not compromise its high natural frequency. Its wide operating range (-65°F to +525°F) makes it ideal for numerous applications in Aerospace and other areas of industry.



OPTIONAL CONNECTOR VERSION	PRESSUR TUBE.02 (.8 X 25 PSIG & F	rsid UNITS	(4.8)	→ .17				9.5	IN STANDARD N OPTIONAL VIRING DESIGNATION + INPUT - INPUT - OUTPUT
INPUT	0.35	0.7	1.7	3.5	7	17	35	70	140 BAR
Pressure Range	5	10	25	50	100	250	500	1000	2000 PSI
Operational Mode	Absolute, Gage, Sealed Gage, Differential Absolute, Sealed Gage								
Over Pressure	2 Times Rated Pressure to a Maximum of 3000 PSI (210 BAR)								
Burst Pressure	3 Times Rated Pressure to a Maximum of 5000 PSI (350 BAR)								
Pressure Media	All Nonconductive, Noncorrosive Liquids or Gases (Most Conductive Liquids and Gases - Please Consult Factory)								
Rated Electrical Excitation									
Maximum Electrical Excitation	15 VDC/AC								
Input Impedance	1000 Ohms (Min.)								
OUTPUT Output Impedance	1000 Ohms (Nom.)								
Full Scale Output (FSO)	100 mV (Nom.)								
Residual Unbalance	± 5 mV (Typ.)								
Combined Non-Linearity, Hysteresis and Repeatability	± 0.1% FSO BFSL (Typ.), ± 0.5% FSO (Max.)								
Resolution	Infinitesimal								
Natural Frequency (KHz) (Typ.)	150	175	240	300	380	550	700	1000	1400
Acceleration Sensitivity % FS/g Perpendicular Transverse	1.5x10 <sup>-3</sup> 2.2x10 <sup>-4</sup>	1.0x10 <sup>-3</sup> 1.4x10 <sup>-4</sup>	5.0x10 <sup>-4</sup> 6.0x10 <sup>-5</sup>	3.0x10 <sup>-4</sup> 4.0x10 <sup>-5</sup>	1.5x10 <sup>-4</sup> 2.0x10 <sup>-5</sup>	1.0x10 <sup>-4</sup> 9.0x10 <sup>-6</sup>	6.0x10 <sup>-5</sup> 6.0x10 <sup>-6</sup>	4.5x10⁻⁵ 3.0x10⁻⁶	2.0x10 <sup>-5</sup> 2.0x10 <sup>-6</sup>
Insulation Resistance	100 Megohm Min. @ 50 VDC								
ENVIRONMENTAL Operating Temperature Range	-65°F to +525°F (-55°C to +273°C)								
Compensated Temperature Range	+80°F to +450°F (+25°C to +232°C)								
Thermal Zero Shift	± 1% FS/100°F (Typ.)								
Thermal Sensitivity Shift	± 1% /100°F (Typ.)								
Steady Acceleration	10,000g. (Max.)								
Linear Vibration	10-2,000 Hz Sine, 100g. (Max.)								
PHYSICAL Electrical Connection	4 Conductor 30 AWG Shielded Cable 36" Long								
Weight	4 Grams (Nom.) Excluding Cable								
Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology								
Mounting Torque	15 Inch-Pounds (Max.) 1.7 N-m								

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters.

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