

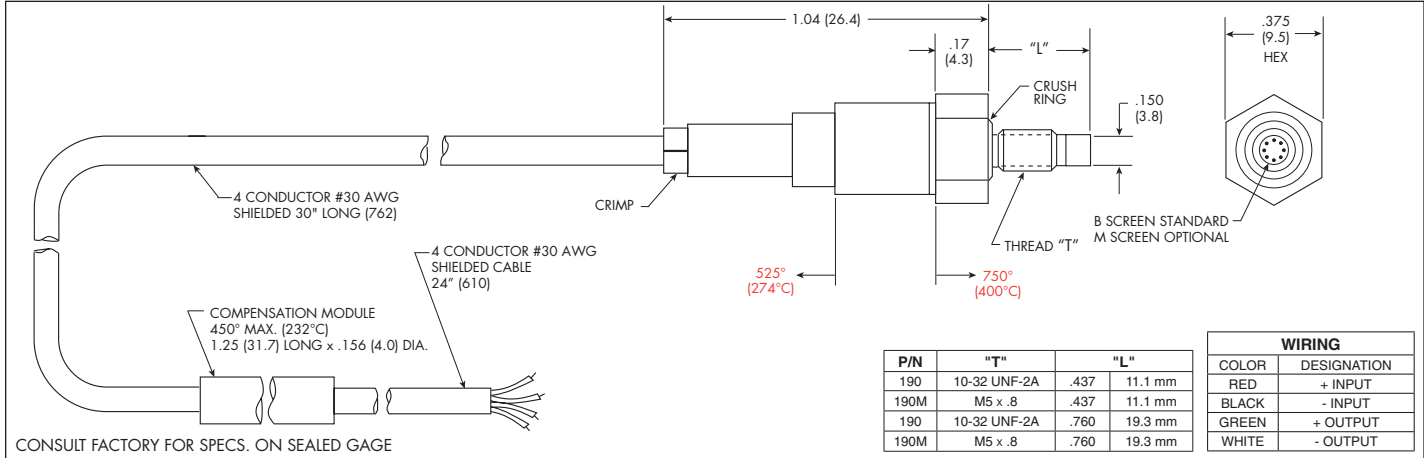
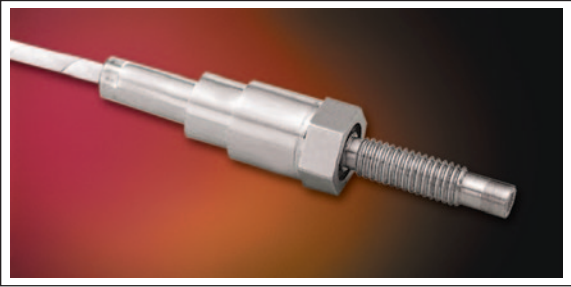


HIGH TEMPERATURE IS® PRESSURE TRANSDUCER

XTEH-7L-190 (M) SERIES

- -65°F To 750°F Temperature Capability
- Patented Leadless Technology VIS®
- High Natural Frequency
- Suitable For Stall Avoidance Application

The XTEH Series pressure transducers feature a very wide operating temperature range. These characteristics make these devices ideal for Turbine engine testing especially in the areas of stall avoidance and active stability control. Other equally demanding applications in the industry may also benefit from the ruggedness of these devices.



INPUT	1.7	3.5	7	14	21	35	70	140	210 BAR
Pressure Range	25	50	100	200	300	500	1000	2000	3000 PSI
Operational Mode	Absolute, Sealed Gage								
Over Pressure	2 Times Rated Pressure								
Burst Pressure	3 Times Rated Pressure								
Pressure Media	All Nonconductive, Noncorrosive Liquids or Gases (Most Conductive Liquids and Gases - Please Consult Factory)								
Rated Electrical Excitation	10 VDC/AC								
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.)	240	300	380	500	575	700	1000	1400	1650
Acceleration Sensitivity % FS/g									
Perpendicular	5.0x10 ⁻⁴	3.0x10 ⁻⁴	1.5x10 ⁻⁴	1.1x10 ⁻⁴	9.0x10 ⁻⁵	6.5x10 ⁻⁵	4.0x10 ⁻⁵	2.5x10 ⁻⁵	1.9x10 ⁻⁵
Transverse	6.0x10 ⁻⁵	4.0x10 ⁻⁵	2.0x10 ⁻⁵	1.5x10 ⁻⁵	1.0x10 ⁻⁵	7.0x10 ⁻⁶	4.0x10 ⁻⁶	3.0x10 ⁻⁶	2.0x10 ⁻⁶
Insulation Resistance	100 Megohm Min. @ 50 VDC								
ENVIRONMENTAL									
Operating Temperature Range	-65°F to +750°F (-55°C to +400°C) - Pressure Sensing Area -65°F to +525°F (-55°C to +274°C) - Cable Area								
Compensated Temperature Range	+80°F to +650°F (+25°C to +343°C)								
Thermal Zero Shift	± 1.5% FS/100°F (Typ.)								
Thermal Sensitivity Shift	± 1.5% /100°F (Typ.)								
Steady Acceleration and Linear Vibration	1,000g. Sine								
PHYSICAL									
Electrical Connection	4 Conductor 30 AWG Shielded Cable (30" Before Module, 24" After Module)								
Weight	8 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.

Note: Requires external compensation module (Max. temp. 450°F) Please refer to outline drawing.

Continuous development and refinement of our products may result in specification changes without notice - all dimensions nominal. (I)