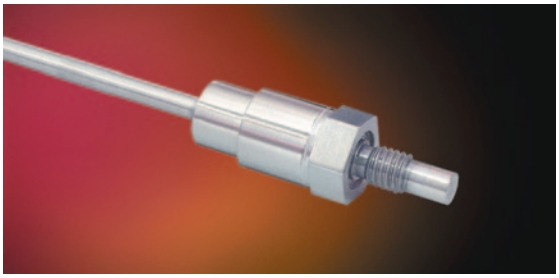
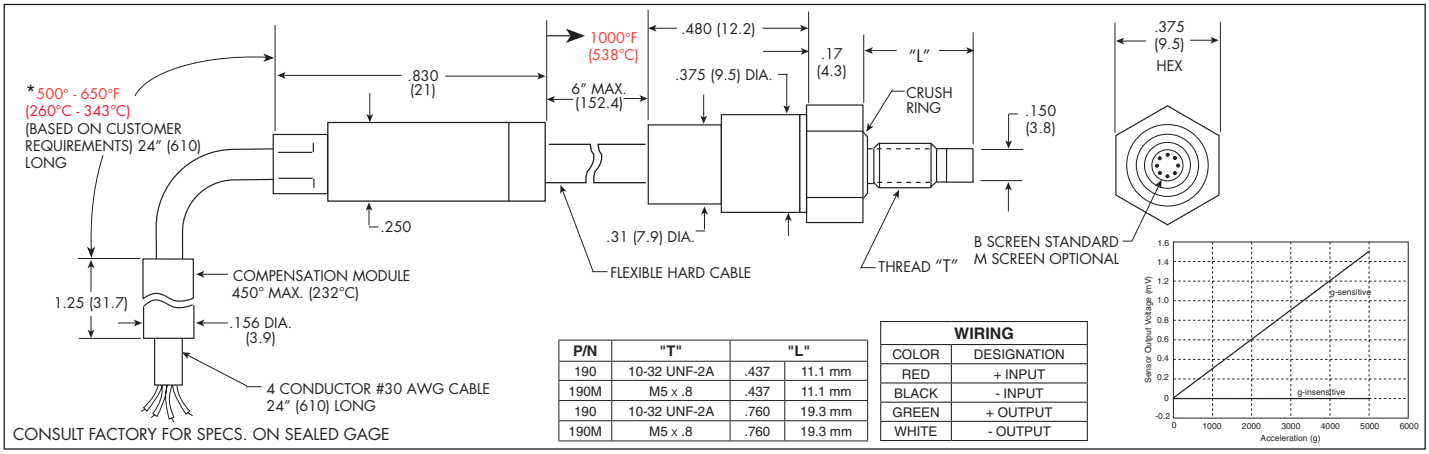
SUPER HIGH TEMPERATURE LOW G SENSITIVITY IS® PRESSURE TRANSDUCER

XTEH-10LAC-190 (M) SERIES

- Acceleration/Vibration Insensitive Design **VIS²®**
- Patented Leadless Technology
- High Natural Frequency
- –65°F To 1000°F Temperature Capability*
- Suitable For Stall Avoidance Application



The XTEH Series pressure transducers feature a very wide operating temperature range and an extremely low G sensitivity. 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.



P/N	"T"		"L"
190	10-32 UNF-2A	.437	11.1 mm
190M	M5 x .8	.437	11.1 mm
190	10-32 UNF-2A	.760	19.3 mm
190M	M5 x .8	.760	19.3 mm

WIRING	
COLOR	DESIGNATION
RED	+ INPUT
BLACK	- INPUT
GREEN	+ OUTPUT
WHITE	- OUTPUT

INPUT Pressure Range	1.7 25	3.5 50	7 100	14 200	21 300	35 500	70 1000	140 2000	210 BAR 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 Transverse	N/A <<1x10^{-6}								
Insulation Resistance	50 Megohm Min. @ 50 VDC								
ENVIRONMENTAL Operating Temperature Range	-65°F to +1000°F* (-55°C to +538°C) - Cable Area								
Compensated Temperature Range	+80°F to +850°F (+25°C to +454°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 (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								

** Limited life above 850°F (455°C), dependent on operating conditions.*
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. (Y)

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