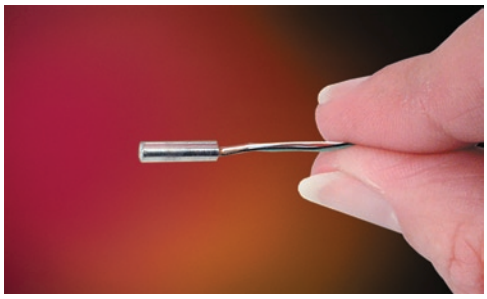
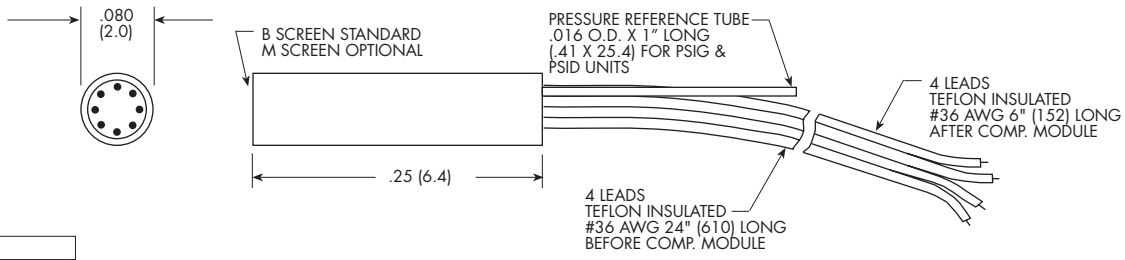
HIGH TEMPERATURE MINIATURE IS® PRESSURE TRANSDUCER

XCE-080 SERIES

- 2mm Diameter
- Ideal For Turbine Engine Probes
- Designed For Both Static And Dynamic Response
- -65°F To 525°F Temperature Capability

The XCE-080 Series allow for a very rugged package suited for probes, pressure rakes and other similar test set ups. This transducer is well suited for both dynamic and static pressure measurements in benign or harsh environments. Its wide operating temperature range (-65°F to +525°F) makes it ideal for numerous applications in Aerospace and other areas of industry.





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

NOTE: FOR INTERNAL COMPENSATION CONSULT FACTORY CONSULT FACTORY FOR SPECS. ON SEALED GAGE

INPUT Pressure Range	1.7 25	3.5 50	7 100	17 250	35 BAR 500 PSI
Operational Mode	Absolute, Gage, Sealed Gage, Differential			Absolute, Sealed Gage	
Over Pressure	2 Times Rated Pressure With No Change in Calibration				
Burst Pressure	3 Times Rated Pressure				
Pressure Media	All Nonconductive, Noncorrosive Liquids or Gases				
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.)	400	500	650	900	1300
Acceleration Sensitivity % FS/g Perpendicular Transverse	3.0×10^{-4} 6.0×10^{-5}	1.5×10^{-4} 3.0×10^{-5}	1.0×10^{-4} 2.0×10^{-5}	5.0×10^{-5} 1.0×10^{-5}	3.0×10^{-5} 6.0×10^{-6}
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 +235°C)				
Thermal Zero Shift	± 1% FS/100°F (Typ.)				
Thermal Sensitivity Shift	± 1% /100°F (Typ.)				
Steady Acceleration	10,000g. (Max.)				
Linear Vibration	10-20,000 Hz Sine, 100g. (Max.)				
PHYSICAL Electrical Connection	4 Leads 36 AWG 30" Long				
Weight	.3 Gram (Nom.) Excluding Module and Leads				
Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon				

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters.
Continuous development and refinement of our products may result in specification changes without notice - all dimensions nominal. (B)