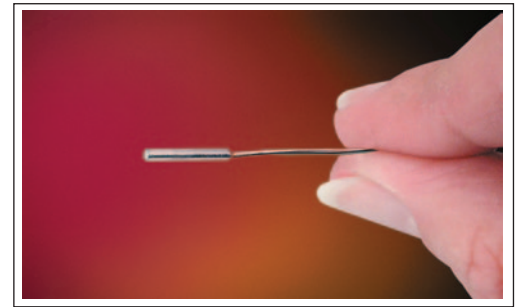




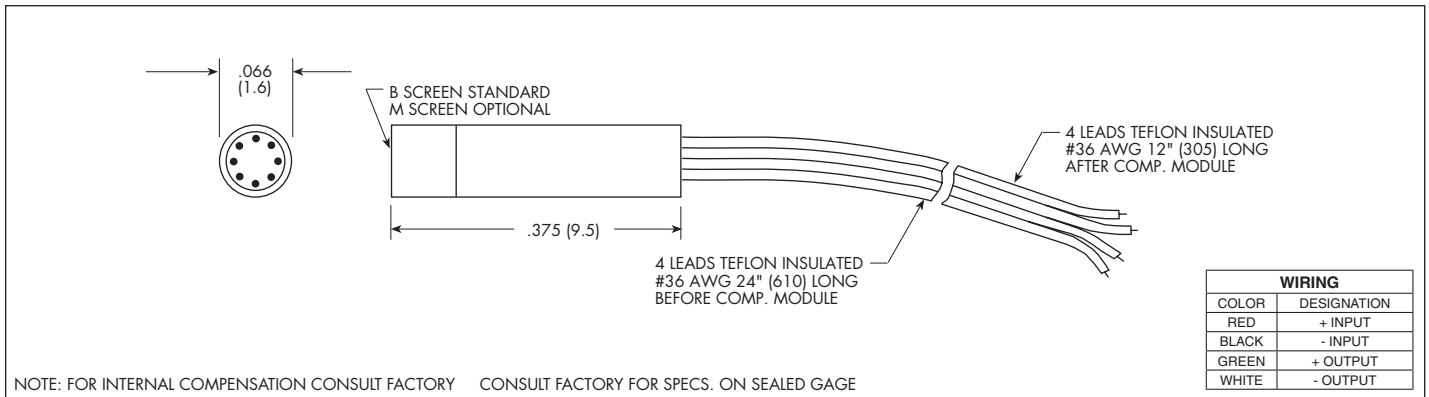
HIGH TEMPERATURE MINIATURE IS® PRESSURE TRANSDUCER

XCEL-062 SERIES

- Patented Leadless Technology For Harsh Environments
- Ideal For Turbine Engine Probes and Wind Tunnel Applications
- Designed For Both Static and Dynamic Response
- -65°F To 525°F Temperature Capability
- Vibration Insensitive Technology **VIS**®
- .066" Diameter



The XCEL-062 design features Kulite's patented leadless technology. This allows 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.



INPUT Pressure Range	1.7 25	3.5 50	7 100	14 200	21 300	35 500	70 BAR 1000 PSI
Operational Mode	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 (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	550	575	700	1000
Acceleration Sensitivity % FS/g Perpendicular	5.0x10 ⁻⁴	3.0x10 ⁻⁴	1.5x10 ⁻⁴	1.1x10 ⁻⁴	9.0x10 ⁻⁵	6.0x10 ⁻⁵	4.0x10 ⁻⁵
Transverse	6.0x10 ⁻⁵	4.0x10 ⁻⁵	2.0x10 ⁻⁵	1.5x10 ⁻⁵	1.0x10 ⁻⁵	6.0x10 ⁻⁶	4.0x10 ⁻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 and Linear Vibration	1000g Sine						
PHYSICAL Electrical Connection	4 Leads 36 AWG 36" Long						
Weight	.2 Gram (Nom.) Excluding Module and Leads						
Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology						

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. (A)

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