

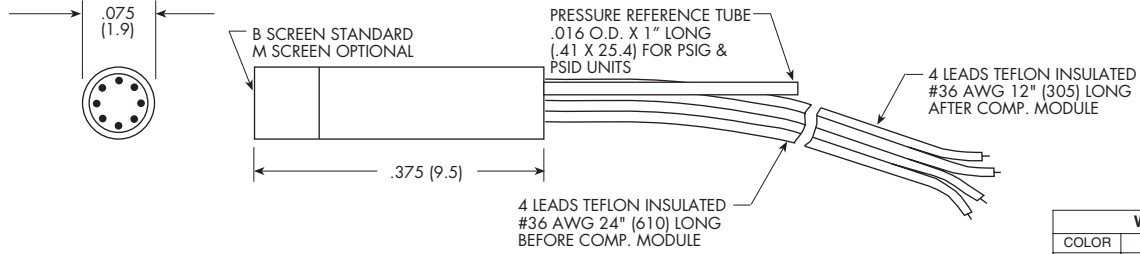
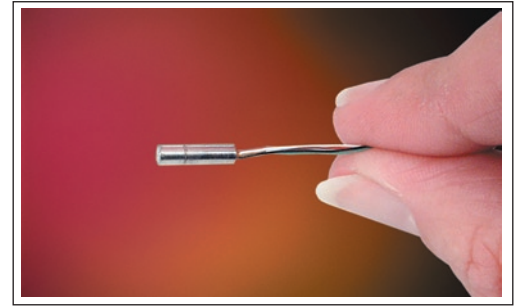


## HIGH TEMPERATURE MINIATURE IS® PRESSURE TRANSDUCER

### XCEL-072 SERIES

- .075" Diameter
- Patented Leadless Technology
- Ideal For Turbine Engine Probes
- Designed For Both Static and Dynamic Response
- -65°F To 525°F Temperature Capability

The XCEL-072 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.



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

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

<b>INPUT</b> Pressure Range	1.7 25	3.5 50	7 100	14 200	21 300	35 BAR 500 PSI
Operational Mode	Absolute, Gage, Sealed Gage, Differential			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.)					
<b>OUTPUT</b> 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
Acceleration Sensitivity % FS/g Perpendicular	5.0x10 <sup>-4</sup>	3.0x10 <sup>-4</sup>	1.5x10 <sup>-4</sup>	1.1x10 <sup>-4</sup>	9.0x10 <sup>-5</sup>	6.0x10 <sup>-5</sup>
Transverse	6.0x10 <sup>-5</sup>	4.0x10 <sup>-5</sup>	2.0x10 <sup>-5</sup>	1.5x10 <sup>-5</sup>	1.0x10 <sup>-5</sup>	6.0x10 <sup>-6</sup>
Insulation Resistance	100 Megohm Min. @ 50 VDC					
<b>ENVIRONMENTAL</b> 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					
<b>PHYSICAL</b> 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 are nominal unless otherwise specified.