



ULTRAMINIATURE

PRESSURE TRANSDUCER WITH INTERNAL COMPENSATION

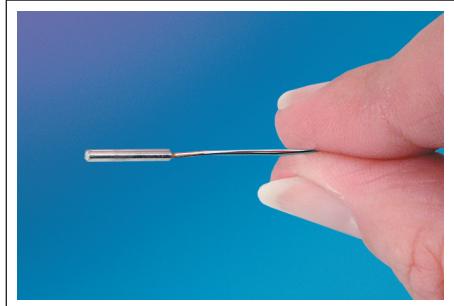
XCQ-IC-062 SERIES

- Ideal For Turbine Engine Probes and Wind Tunnel Applications
- 50 Year History Of Successful Applications In Wind Tunnel And Flight Test Programs
- Patented Silicon on Silicon Integrated Sensor VIS®
- Size And Shape Ideal For Incorporation In User Designed Probes
- Excellent Static And Dynamic Performance

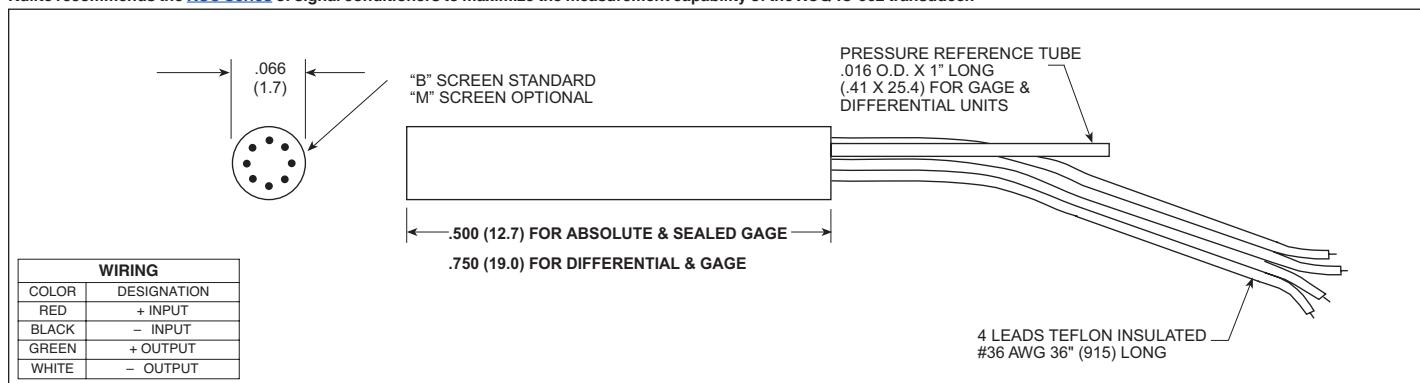
The XCQ-062 Series allows for a very rugged package suited for probes, pressure rakes and other similar test set ups.

This transducer is well suited for both dynamic and static pressure measurements in benign or harsh environments.

Internal compensation allows for ease of installation by eliminating the external compensation module.



Kulite recommends the [KSC Series](#) of signal conditioners to maximize the measurement capability of the XCQ-IC-062 transducer.



INPUT	Pressure Range	0.35 5	0.7 10	1 15	1.7 25	3.5 50	7 100	17 250	35 500	70 BAR 1000 PSI								
	Operational Mode	Gage, Differential	Absolute, Gage, Differential			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																
	Rated Electrical Excitation	10 VDC/AC																
	Maximum Electrical Excitation	12 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 of Sensor Without Screen (KHz) (Typ.)	150	175	200	240	300	380	550	700	1000								
	Acceleration Sensitivity % FS/g Perpendicular	1.5x10 ⁻³	1.0x10 ⁻³	6.5x10 ⁻⁴	5.0x10 ⁻⁴	3.0x10 ⁻⁴	1.5x10 ⁻⁴	1.0x10 ⁻⁴	6.0x10 ⁻⁵	4.5x10 ⁻⁵								
	Insulation Resistance	100 Megohm Min. @ 50 VDC																
ENVIRONMENTAL	Operating Temperature Range	-65°F to +250°F (-55°C to +120°C)																
	Compensated Temperature Range	80°F to +180°F (25°C to +80°C) Any 100°F Range Within The Operating Range on Request																
	Thermal Zero Shift	± 2% FS/100°F (Typ.) (± 3% FS/100°F Max.)			± 1% FS/100°F (Typ.) (± 2% FS/100°F Max.)													
	Thermal Sensitivity Shift	± 2% /100°F (Typ.) (± 3% /100°F Max.)			± 1% /100°F (Typ.) (± 2% /100°F Max.)													
PHYSICAL	Mechanical Shock	20g Half Sine Wave 11 msec. Duration																
	Linear Vibration	20g Peak, Sine 10 to 2000 Hz																
	Electrical Connection	4 Leads 36 AWG 36" (914) Long																
	Weight	.1 grams (Nom.) for .500 Length Excluding Leads / .2 grams (Nom.) for .750 Length Excluding 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. All dimensions nominal. (D)

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Kulite miniature pressure transducers are intended for use in test and research and development programs and are not necessarily designed to be used in production applications. For products designed to be used in production programs, please consult the factory.