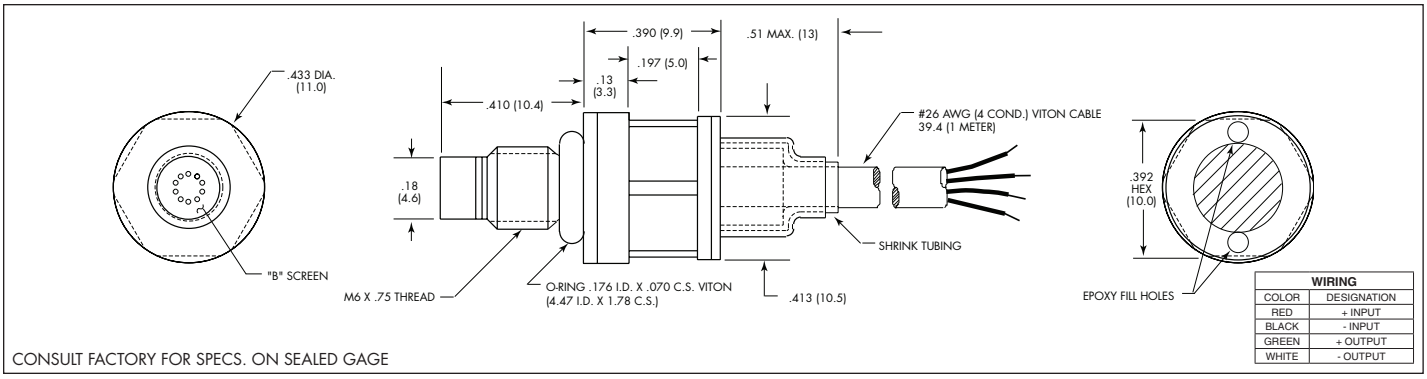
MINIATURE HIGH PRESSURE IS® PRESSURE TRANSDUCER

HKL-1-235 (M) SERIES

- Patented Leadless Technology **VIS®**
- Robust Construction
- Excellent Long Term Stability

The HKL-1-235 is a miniature threaded high pressure transducer utilizing Kulite's Patented Leadless Technology. The hexagonal head and o-ring seal make it easy to mount and simple to apply.

This advanced construction results in a highly stable, reliable and rugged instrument with all the advantages of microcircuitry: significant miniaturization, excellent repeatability, low power consumption, etc. The miniaturization process also yields a marked increase in the natural frequencies of the transducers, making them suitable for use even in shock pressure measurements.



CONSULT FACTORY FOR SPECS. ON SEALED GAGE

INPUT Pressure Range	1.7 25	3.5 50	7 100	17 250	35 500	70 1000	170 2500	250 BAR 3600 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							
Maximum Electrical Excitation	15 VDC							
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	7000	1000	1500	2000
Acceleration Sensitivity % FS/g Perpendicular Transverse	 5.0×10^{-4} 6.0×10^{-5}	 3.0×10^{-4} 4.0×10^{-5}	 1.5×10^{-4} 2.0×10^{-5}	 1.0×10^{-4} 9.0×10^{-6}	 6.0×10^{-5} 6.0×10^{-6}	 4.0×10^{-5} 3.0×10^{-6}	 2.2×10^{-5} 2.2×10^{-6}	 1.4×10^{-5} 1.4×10^{-6}
Insulation Resistance	100 Megohm Min. @ 50 VDC							
ENVIRONMENTAL Operating Temperature Range	-65°F to +350°F (-55°C to +175°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	± 1% FS/100°F (Typ.) (± 2% FS/100°F For 25 PSI Range)							
Thermal Sensitivity Shift	± 1% /100°F (Typ.) (± 2% /100°F For 25 PSI Range)							
Linear Vibration	100g Peak, Sine Up to 5000 Hz							
Humidity	100% Relative Humidity							
Mechanical Shock	20,000g, 100µ sec.							
PHYSICAL Electrical Connection	4 Conductor 26 AWG Viton Cable Without Shielding 1 Meter Long							
Weight	15 Grams (Max.) Excluding Cable							
Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology							
Mounting Torque	50 Inch-Pounds (Max.) 6 Nm							

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. (E)

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