

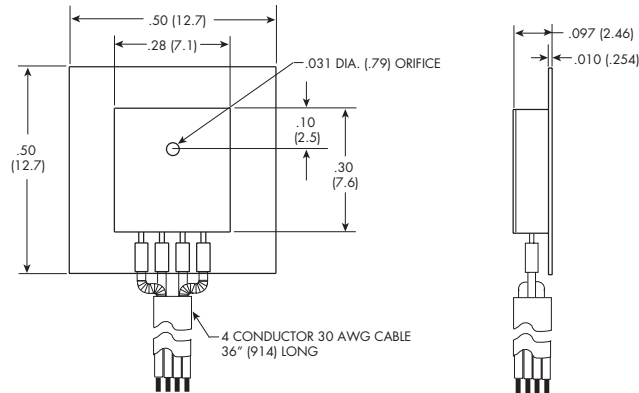
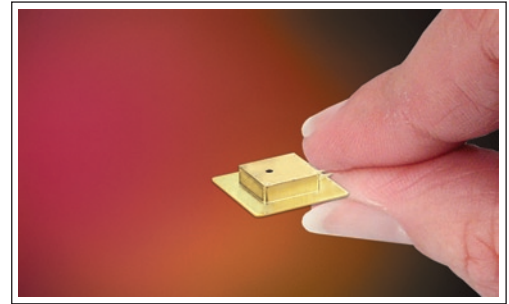


MINIATURE FLATPACK PRESSURE TRANSDUCER

LEH-1AC-250 SERIES

- Acceleration/Vibration Insensitive Design (VIS VIBRATION INSENSITIVE SENSOR™)
- Patented Leadless Technology
- Ultra High Temperature
- Robust Construction
- Spot Weldable

The LEH-1AC-250 series transducers are designed to meet the challenges of modern gas turbine testing. Advanced research in turbine and compressor airfoil aerodynamics will benefit from this new design from Kulite. The LEH-1AC-250 incorporates the latest Kulite patented technologies in pressure sensor development. One of these patented innovative technologies makes the LEH-1AC-250 insensitive to acceleration forces.



INPUT Pressure Range	1.7 25	3.5 50	7 100	17 250	35 BAR 500 PSI
Operational Mode	Absolute, Sealed Gage				
Over Pressure	2 Times Rated Pressure Range				
Burst Pressure	3 Times Rated Pressure Range				
Pressure Media	Any Media Compatible With SiO ₂				
Rated Electrical Excitation	10 VDC				
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	± 0.25% FS BFSL (Typ.)				
Resolution	Infinitesimal				
Natural Frequency % FS/g	240	300	380	550	700
Acceleration Sensitivity % FS/g Perpendicular Transverse	N/A <<1x10 ⁻⁶				
Insulation Resistance	100 Megohm Min. @ 50 VDC				
ENVIRONMENTAL Operating Temperature Range	-65°F to +700°F (-55°C to +371°C)				
Compensated Temperature Range	-40°F to +450°F (-40°C to +232°C) Other Ranges Quoted on Request				
Thermal Zero Shift	± 1% FS/100°F (Typ.)				
Thermal Sensitivity Shift	± 1% FS/100°F (Typ.)				
Linear Vibration	30,000g (Max.)				
Altitude	Unaffected				
Mechanical Shock	100g half Sine Wave 1 msec. Duration				
PHYSICAL Electrical Connection	4 Conductor 30 AWG High Temperature Teflon/Kapton Shielded Cable (Other Cable Types Available Upon Request)				
Weight	.8 Grams (Nom.) Excluding Cable				
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. (J)