



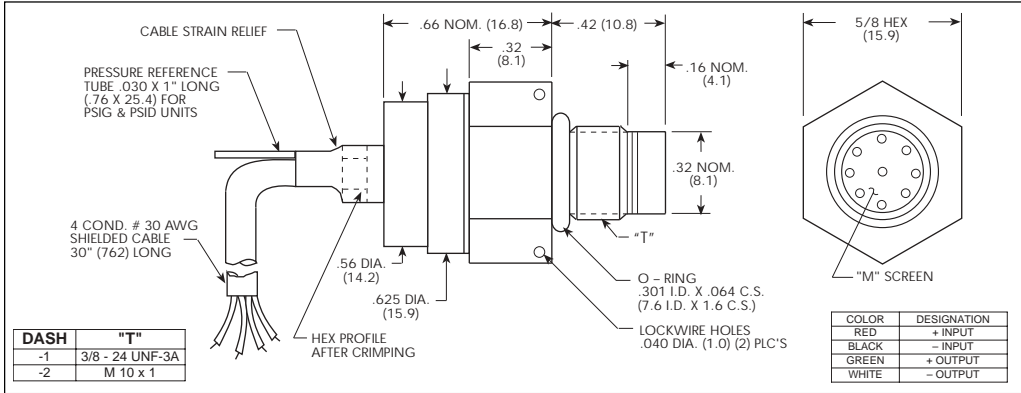
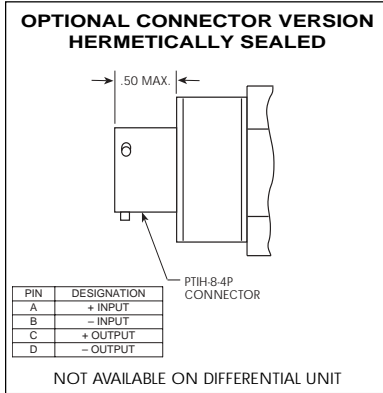
MINIATURE HIGH TEMPERATURE IS® PRESSURE TRANSDUCER

HEM-375 (M) SERIES HEL-375 (M) SERIES

- High Temperature
- High Natural Frequencies
- Robust Construction
- Excellent Stability
- High Natural Frequencies
- 3/8-24 UNJF or M10 X 1 Thread
- Patented Leadless Technology (HEL Series)



In terms of design the HEM-375 adopts the same approach to transducer construction as the HKM-375 model. Use of high temperature materials and assembly processes allows for continuous use at temperatures up to 450°F (260°C). This transducer is an ideal choice for use in high temperature, high frequency measurement applications such as blast pressure wave studies. The HEL-375 Series utilizes Kulite's Patented Leadless Technology.



INPUT	
Pressure Range	
Operational Mode	
Over Pressure	
Burst Pressure	
Pressure Media	
Rated Electrical Excitation	
Maximum Electrical Excitation	
Input Impedance	
OUTPUT	
Output Impedance	
Full Scale Output (FSO)	
Residual Unbalance	
Combined Non-Linearity, Hysteresis and Repeatability	
Resolution	
Natural Frequency (KHz) (Typ.)	
Acceleration Sensitivity % FS/g Perpendicular	
Transverse	
Insulation Resistance	
ENVIRONMENTAL	
Operating Temperature Range	
Compensated Temperature Range	
Thermal Zero Shift	
Thermal Sensitivity Shift	
Linear Vibration	
Humidity	
Mechanical Shock	
PHYSICAL	
Electrical Connection	
Weight	
Sensing Principle	
Mounting Torque	

HEL/HEM								HEM	
1.7	3.5	7	17	35	70	170	350	700	1400 BAR
25	50	100	250	500	1000	2500	5000	10000	20000 PSI
Absolute, Gage, Sealed Gage, Differential									
2 Times Rated Pressure to a Max. of 30000 PSI (2100 BAR)									
3 Times Rated Pressure to a Max. of 35000 PSI (2400 BAR)									
Any Liquid or Gas Compatible With 15-5PH or 316 SS (HEM)					15-5 PH SS and SiO ₂ (HEL)				
10 VDC									
15 VDC									
1000 Ohms (Min.)									
1000 Ohms (Nom.)									
100 mV (75 mV For 25 PSI Range) (Nom.)									
± 5 mV (Typ.)									
± 0.1% FS BFSL (Typ.)									
Infinitesimal									
400	500	600	750	1000	1200	1500	1120	1350	1600
3.0x10 ⁻⁴	1.5x10 ⁻⁴	1.0x10 ⁻⁴	5.0x10 ⁻⁵	3.0x10 ⁻⁵	2.0x10 ⁻⁵	1.1x10 ⁻⁵	2.0x10 ⁻⁵	1.3x10 ⁻⁵	8.0x10 ⁻⁶
6.0x10 ⁻⁵	3.0x10 ⁻⁵	2.0x10 ⁻⁵	1.0x10 ⁻⁵	6.0x10 ⁻⁶	4.0x10 ⁻⁶	2.2x10 ⁻⁶	2.4x10 ⁻⁶	1.5x10 ⁻⁶	1.0x10 ⁻⁶
100 Megohm Min. at 50 VDC									
-65° F to +450° F (-55° C to +232° C)									
+80° F to +450° F (+25° C to 232° C)									
± 1% FS/100° F (55° C) (Typ.) (± 2% FS/100° F For 25 PSI Range)									
± 1% FS/100° F (55° C) (Typ.) (± 2% FS/100° F For 25 PSI Range)									
100g Peak, Sine up to 5000 Hz									
100% Relative Humidity									
20,000g, 100µ sec.									
4 Conductor 30 AWG Shielded Cable 30" (762) Long									
17 Grams (Max.) Excluding Cable									
Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon (Patented Leadless Technology - HEL)									
80 Inch-Pounds (Max.)									

Note: Custom pressure ranges, accuracies and mechanical configurations available.
 Continuous development and refinement of our products may result in specification changes without notice - all dimensions nominal. (B)