

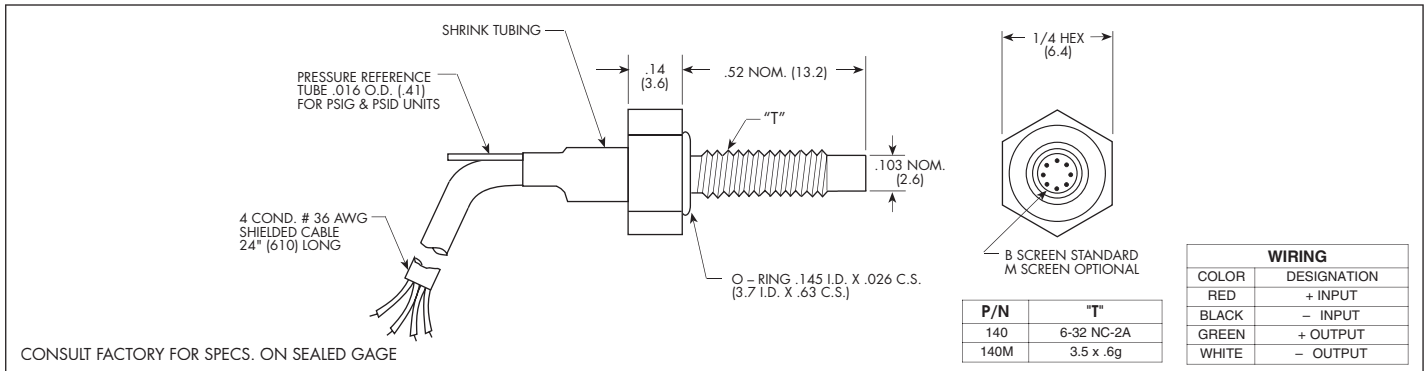
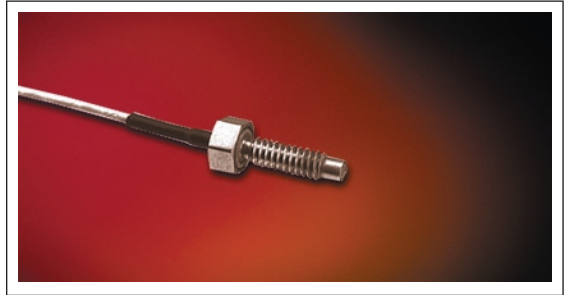


SUBMINIATURE HIGH TEMPERATURE IS® PRESSURE TRANSDUCER

XTEL-140 (M) SERIES

- Easy Installation
- Smallest Threaded Device Available
- Patented Leadless Technology
- High Natural Frequency
- 6-32 NC-2A Thread
- High Temperature Up To 525°F

The XTEL Series utilizes Kulite's Patented Leadless Technology to obtain extremely high natural frequencies in the smallest thread mount available.



INPUT	.35	0.7	1.7	3.5	7	17	35 BAR
Pressure Range	5	10	25	50	100	250	500 PSI
Operational Mode	Absolute, Gage, Sealed Gage, Differential					Absolute, Sealed Gage	
Over Pressure	2 Times Rated Pressure With No Change In Calibration						
Burst Pressure	3 Times Rated Pressure						
Pressure Media	Any Media Compatible With SiO ₂ and 15-5 PH SS						
Rated Electrical Excitation	10 VDC/AC						
Maximum Electrical Excitation	15 VDC/AC						
Input Impedance	1000 Ohms (Min.)						
OUTPUT	1000 Ohms (Nom.)						
Output Impedance	100 mV (Nom.)						
Full Scale Output (FSO)	± 5 mV (Typ.)						
Residual Unbalance	± 0.1% FSO BFSL (Typ.) ± 0.5% FSO (Max.)						
Combined Non-Linearity, Hysteresis and Repeatability	± 0.1% FSO BFSL (Typ.) ± 0.5% FSO (Max.)						
Resolution	Infinite						
Natural Frequency (KHz) (Typ.)	150	200	240	300	400	550	800
Acceleration Sensitivity % FS/g Perpendicular	1.0x10 ⁻³	7.0x10 ⁻⁴	3.0x10 ⁻⁴	2.0x10 ⁻⁴	8.0x10 ⁻⁵	4.0x10 ⁻⁵	2.0x10 ⁻⁵
Transverse	2.0x10 ⁻⁴	1.4x10 ⁻⁴	6.0x10 ⁻⁵	4.0x10 ⁻⁵	1.6x10 ⁻⁵	8.0x10 ⁻⁶	4.0x10 ⁻⁶
Insulation Resistance	100 Megohm Min. at 50 VDC						
ENVIRONMENTAL	-65° F to 525° F (-55° C to 273° C)						
Operating Temperature Range	-65° F to 525° F (-55° C to 273° C)						
Compensated Temperature Range	80° F to 450° F (25° C to 232° C)						
Thermal Zero Shift	± 1% FS/100° F (Typ.)						
Thermal Sensitivity Shift	± 1%/100° F (Typ.)						
Steady Acceleration	10,000g. (Max.)						
Linear Vibration	10-2,000 Hz Sine, 100g. Max.						
PHYSICAL	4 Conductor 36 AWG Teflon Cable 30" Long						
Electrical Connection	4 Conductor 36 AWG Teflon Cable 30" Long						
Weight	3 Grams (Nom.) Excluding Cable						
Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology						
Mounting Torque	15 Inch-Pounds (Max.)						

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.