



5 VDC OUTPUT IS® PRESSURE TRANSDUCER

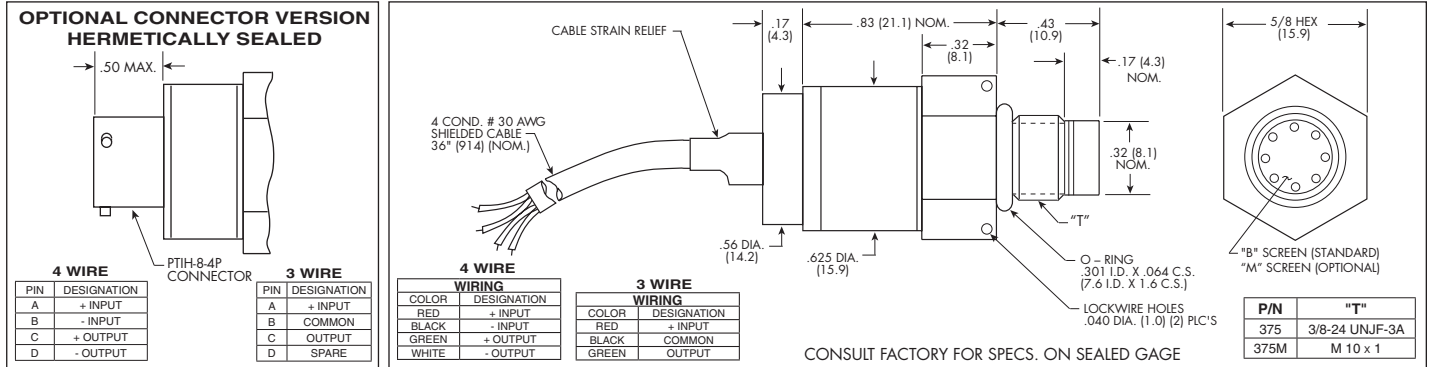
ETL-375 (M) SERIES

- 5 VDC Output
- Hybrid Microelectronic Regulator-Amplifier
- Patented Leadless Technology VIS®
- All Welded Construction
- Secondary Containment On Absolute And Sealed Gage Units
- Aerospace Quality Components
- 3/8-24 UNJF or M10 X 1 Thread
- 4 Wire (ETL-375) 3 Wire (ETL-300-375)



ETL-375 Series transducers are miniature, threaded instruments. The sensing sub-assembly is protected from mechanical damage by a solid screen which has been shown to have minimal influence on the frequency response of the sensor. The ETL Series uses Kulite's Patented Leadless Technology.

Incorporation of a Kulite proprietary electronics module within the main body of this product allows for operation from an unregulated power supply ranging from $12 \pm 4VDC$ or $28 \pm 4VDC$ with reverse polarity protection available upon request.



INPUT	1.7	3.5	7	17	35	70	170	350 BAR
Pressure Range	25	50	100	250	500	1000	2500	5000 PSI
Operational Mode	Absolute, Gage, Sealed Gage							
Over Pressure	2 Times Rated Pressure to 1000 PSI (70 BAR) 1.5 Times Rated Pressure Above 1000 PSI to a Max. of 6000 PSI (420 BAR)							
Burst Pressure	3 Times Rated Pressure to a Max. of 10000 PSI (700 BAR)							
Pressure Media	All Nonconductive, Noncorrosive Liquids or Gases (Most Conductive Liquids and Gases - Please Consult Factory)							
Maximum Electrical Current	25 mA							
Rated Electrical Excitation	8 - 16 VDC				13 - 32 VDC			
OUTPUT	5 VDC \pm 150 mV				5 VDC \pm 150 mV or 10 VDC \pm 300 mV			
Full Scale Reading								
Output Impedance	200 Ohms (Max.)							
Bandwidth (-3dB)	DC to 5 KHz							
Residual Unbalance	0 to 100 mV (ETL-375)				200 mV \pm 50 mV (ETL-300-375)			
Combined Non-Linearity, Hysteresis and Repeatability	\pm 0.1% FSO BFSL (Typ.), \pm 0.5% FSO (Max.)							
Resolution	Infinitesimal							
Natural Frequency (KHz) (Typ.)	Greater Than 400 KHz							
Acceleration Sensitivity % FS/g Perpendicular	1.9x10 ⁻³	1.0x10 ⁻³	5.2x10 ⁻⁴	2.2x10 ⁻⁴	1.1x10 ⁻⁴	6.2x10 ⁻⁵	2.6x10 ⁻⁵	1.5x10 ⁻⁵
Transverse	5.0x10 ⁻⁵	3.1x10 ⁻⁵	2.0x10 ⁻⁵	1.0x10 ⁻⁵	7.0x10 ⁻⁶	4.3x10 ⁻⁶	2.3x10 ⁻⁶	1.5x10 ⁻⁶
Insulation Resistance	100 Megohm Min. @ 50 VDC							
ENVIRONMENTAL								
Operating Temperature Range	-65°F to +250°F (-55°C to +120°C)							
Compensated Temperature Range	0°F to +212°F (-18°C to +100°C) Other Ranges Quoted on Request							
Thermal Zero Shift	\pm 1% FS/100° F (Typ.)							
Thermal Sensitivity Shift	\pm 1% /100° F (Typ.)							
Linear Vibration	100g Peak, Sine up to 5000 Hz							
Altitude	-150 ft. to +70,000 ft. Will Not Damage Sensor							
Humidity	100% Relative Humidity							
Mechanical Shock	100g half Sine Wave 11 msec. Duration							
PHYSICAL								
Electrical Connection	4 Conductor 30 AWG Shielded Cable 36" Long							
Weight	24.5 Grams (Max.) Excluding Cable							
Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology							
Mounting Torque	80 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. (K)

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