



## 5 VDC OUTPUT MICROPROCESSOR CORRECTED IS® PRESSURE TRANSDUCER

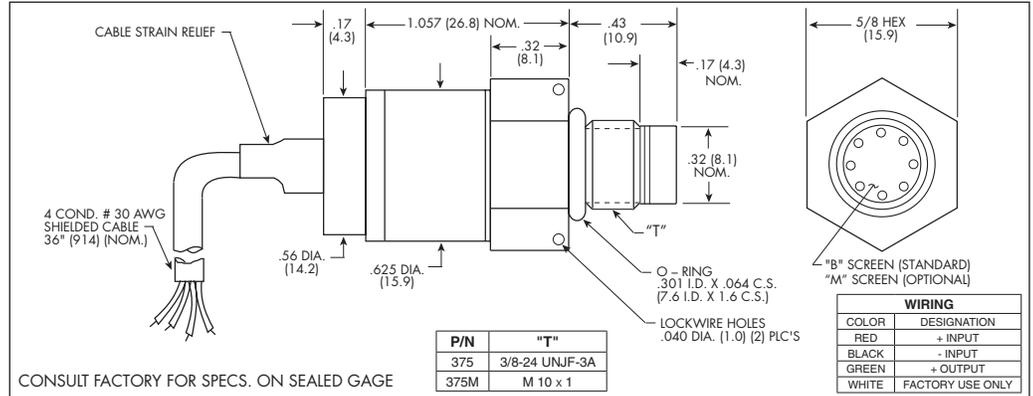
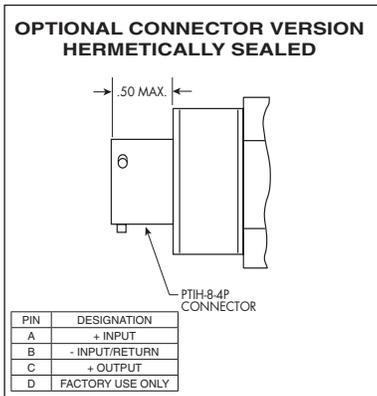
### ETM-DC-375 (M) SERIES

- 5 VDC Microprocessor Corrected Output
- Hybrid Microelectronic Regulator-Amplifier
- All Welded Construction
- Silicon on Silicon Integrated Sensor VIS®
- Secondary Containment On Absolute And Sealed Gage Units
- Aerospace Quality Components
- Analog Output
- Intrinsically Safe Applications Available (i.e. IS-ETM-DC-375)



ETM-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. 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 ± 4VDC or 28 ± 4VDC with reverse polarity protection available upon request. The result is a stable, digitally corrected 0 to 5 VDC output signal.



<b>INPUT</b>	17	35	70	170	350	700	1400 BAR
Pressure Range	250	500	1000	2500	5000	10000	20000 PSI
Operational Mode	Absolute, 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 30000 PSI (2100 BAR)						
Burst Pressure	3 Times Rated Pressure to a Max. of 35000 PSI (2400 BAR)						
Pressure Media	Any Liquid or Gas Compatible With 15-5 PH and 316 Stainless Steel						
Maximum Electrical Current	25 mA						
Rated Electrical Excitation	8 - 32 VDC						
<b>OUTPUT</b>	5 VDC						
Full Scale Output (FSO)	0 VDC						
Residual Unbalance	50 Ohms (Typ.)						
Output Impedance	± 0.5% (Typ.)						
Total Error Band	<i>(End Point Settings, Combined Non-Linearity, Hysteresis, Repeatability and All Thermal Effects Included)</i>						
Bandwidth (-3dB)	DC to 2500 Hz						
Resolution	Infinitesimal						
Insulation Resistance	100 Megohm Min. @ 50 VDC						
<b>ENVIRONMENTAL</b>	-40°F to +280°F (-40°C to +140°C) (Max.)						
Operating Temperature Range	-40°F to +250°F (-40°C to +120°C)						
Compensated Temperature Range	100g Peak, Sine up to 5000 Hz						
Linear Vibration	-150 ft. to +70,000 ft. Will Not Damage Sensor						
Altitude	100% Relative Humidity						
Humidity	100g half Sine Wave 11 msec. Duration						
Mechanical Shock	3/8 - 24 UNJF or M10x1 Thread						
Pressure Port	4 Conductor 30 AWG Shielded Cable 36" Long						
Electrical Connection	24.5 Grams (Max.) Excluding Cable						
Weight	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon						
Pressure Sensing Principle	80 Inch-Pounds (Max.)						
Mounting Torque							

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 specifications changes without notice. All dimensions are original only.