



# 5 VDC OUTPUT MICROPROCESSOR CORRECTED IS® PRESSURE TRANSDUCER

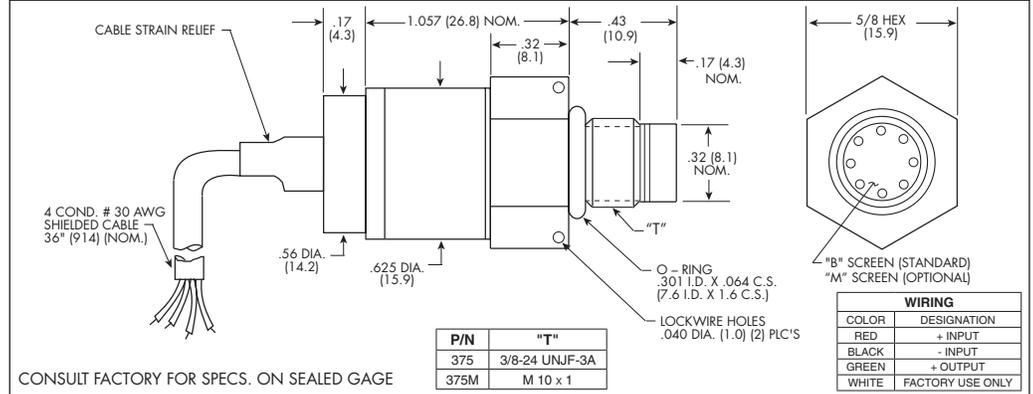
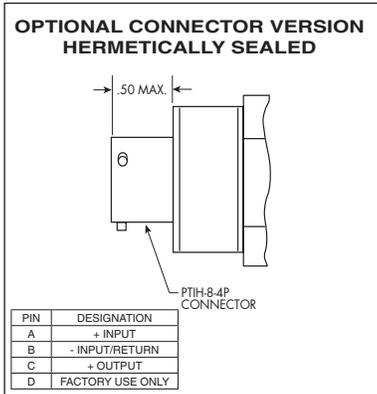
## ETM-DC-375 (M) SERIES

- 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>	
Pressure Range	17 35 70 170 350 700 1400 BAR 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>	
Full Scale Output (FSO)	5 VDC
Residual Unbalance	0 VDC
Output Impedance	50 Ohms (Typ.)
Total Error Band	± 0.5% (Typ.) <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>	
Operating Temperature Range	-40°F to +280°F (-40°C to +140°C) (Max.)
Compensated Temperature Range	-40°F to +250°F (-40°C to +120°C)
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
<b>PHYSICAL</b>	
Pressure Port	3/8 - 24 UNJF or M10x1 Thread
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
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. (H)