



## 5 VDC OUTPUT DIGITALLY CORRECTED PRESSURE TRANSDUCER

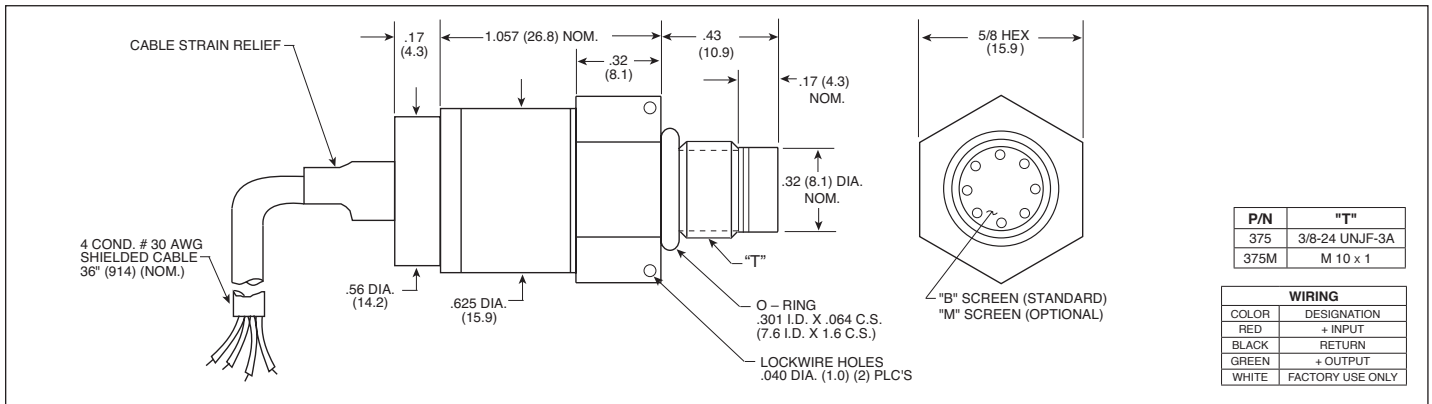
### ETM-DC-375 (M) SERIES

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



ETM-DC-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 8 - 32 VDC with reverse polarity protection available upon request. The result is a stable, digitally corrected 0 to 5 VDC output signal.



	17	35	70	170	350	700	1400 BAR
<b>INPUT</b>	250	500	1000	2500	5000	10000	20000 PSI
Pressure Range							
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 25000 PSI (1724 BAR)						
Burst Pressure	3 Times Rated Pressure to a Max. of 25000 PSI (1724 BAR)						
Pressure Media	Any Liquid or Gas Compatible With 15-5 PH and 316 Stainless Steel or Inconel 625						
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.) (End Point Settings, Combined Non-Linearity, Hysteresis, Repeatability and All Thermal Effects Included)						
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						
Mechanical Shock	100g half Sine Wave 11 msec. Duration						
<b>PHYSICAL</b>							
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. All dimensions nominal. (Q) Continuous development and refinement of our products may result in specification changes without notice. Copyright © 2014 Kulite Semiconductor Products, Inc. All Rights Reserved. Kulite miniature pressure transducers are intended for use in test and research and development programs and are not necessarily designed to be used in production applications. For products designed to be used in production programs, please consult the factory.