



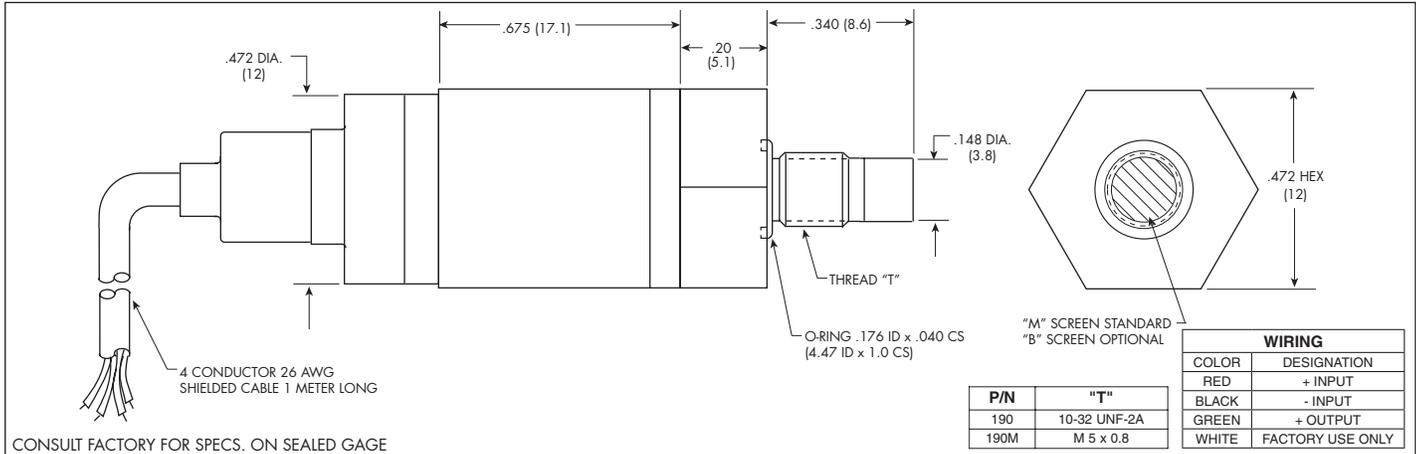
## MINIATURE 5 VOLT MICROPROCESSOR CORRECTED IS® PRESSURE TRANSDUCER

### ETL-76M-190 (M) SERIES

- Robust Construction
  - Ultra Miniature Amplified Version
  - Microprocessor Corrected
  - High Accuracy
  - Intrinsically Safe Patented Leadless Technology
- Applications Available (i.e. IS-ETL-76M-190)



The ETL-76 Series is one of the smallest amplified transducers currently available. It incorporates the latest pressure sensing technology – Kulite's dielectrically isolated, silicon on silicon, patented leadless sensing element, which enables this device to be used in harsh environments. The ETL-76M microprocessor corrected transducer offers high accuracy with a total error band of  $\pm 0.25\%$  FSO, inclusive of all errors over a wide temperature range of  $-40^{\circ}\text{F}$  to  $+250^{\circ}\text{F}$ .



INPUT Pressure Range	0.35 5	1.0 15	1.7 25	3.5 50	7 100	17 250	35 500	70 1000	140 2000	210 BAR 3000 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 6000 PSI (420 BAR)									
Burst Pressure	3 Times Rated Pressure to a Maximum of 6000 PSI (420 BAR)									
Pressure Media	All Nonconductive, Noncorrosive Liquids or Gases (Most Conductive Liquids and Gases - Please Consult Factory)									
Maximum Electrical Current	25 mA (Max.)									
Rated Electrical Excitation	8 - 32 VDC									
<b>OUTPUT</b> Full Scale Output (FSO)	5 VDC									
Residual Unbalance	0.5V									
Output Impedance	50 Ohms (Typ.)									
Total Error Band	$\pm 0.25\%$ Typ. (End Point Settings, Combined Non-Linearity, Hysteresis, Repeatability and All Thermal Effects Included)									
Bandwidth (-3dB)	DC to 2500 Hz									
Resolution	Infinitesimal									
Acceleration Sensitivity % FS/g Perpendicular Transverse	1.5x10 <sup>-3</sup> 2.2x10 <sup>-4</sup>	1.0x10 <sup>-3</sup> 1.4x10 <sup>-4</sup>	5.0x10 <sup>-4</sup> 6.0x10 <sup>-5</sup>	3.0x10 <sup>-4</sup> 4.0x10 <sup>-5</sup>	1.5x10 <sup>-4</sup> 2.0x10 <sup>-5</sup>	1.0x10 <sup>-4</sup> 1.0x10 <sup>-5</sup>	6.0x10 <sup>-5</sup> 6.0x10 <sup>-6</sup>	4.0x10 <sup>-5</sup> 3.0x10 <sup>-6</sup>	2.5x10 <sup>-5</sup> 3.0x10 <sup>-6</sup>	1.9x10 <sup>-5</sup> 2.0x10 <sup>-6</sup>
Insulation Resistance	100 Megohm Min. @ 50 VDC									
<b>ENVIRONMENTAL</b> Operating Temperature Range	$-40^{\circ}\text{F}$ to $+280^{\circ}\text{F}$ ( $-40^{\circ}\text{C}$ to $+140^{\circ}\text{C}$ ) (Max.)									
Compensated Temperature Range	$-40^{\circ}\text{F}$ to $+250^{\circ}\text{F}$ ( $-40^{\circ}\text{C}$ to $+120^{\circ}\text{C}$ )									
Linear Vibration	50g Peak, Sine 10 to 2000 Hz									
Altitude	-150 ft. to +70,000 ft. Will Not Damage Sensor									
Humidity	100% Relative Humidity									
Mechanical Shock	100g half Sine Wave 11 msec. Duation									
<b>PHYSICAL</b> Electrical Connection	4 Conductor 26 AWG Shielded Viton Cable 1 Meter Long									
Weight	10 Grams Excluding Cable									
Pressure 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. (Q)