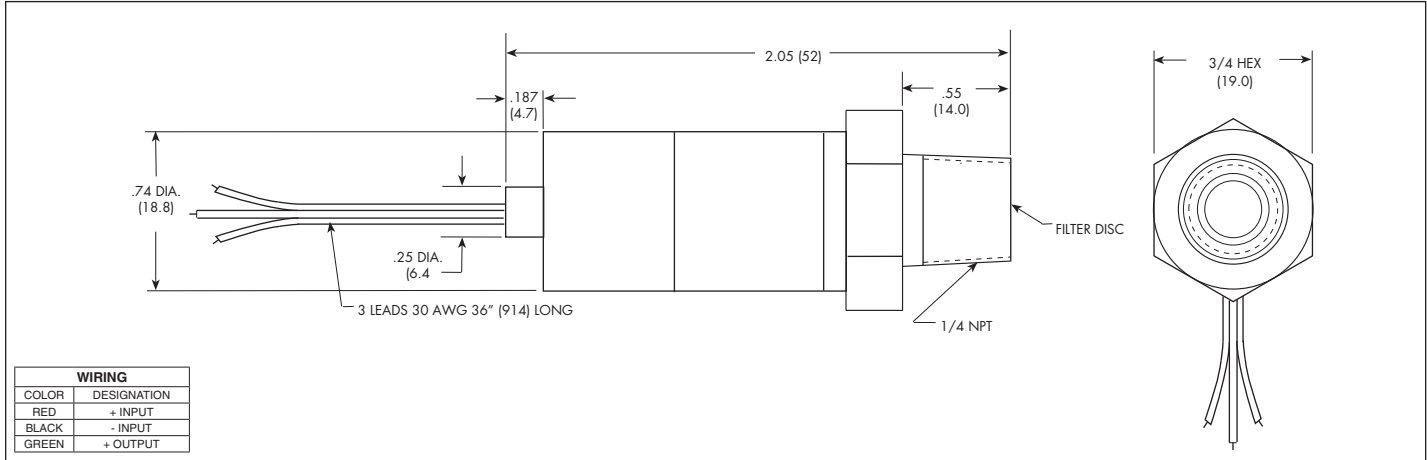




5 VDC OUTPUT PRESSURE TRANSDUCER

ETQ-500 SERIES

- 5 VDC Output
- Hybrid Microelectronic Regulator-Amplifier
- All Welded Construction
- Excellent Stability and Reliability
- Secondary Containment On Absolute And Sealed Gage Units
- Silicon on Silicon Integrated Sensor **VIS®**



	3.5 50	7 100	17 250	35 500	70 1000	170 2500	350 BAR 5000 PSI	
INPUT	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 30000 PSI (2100 BAR)						
	Burst Pressure	3 Times Rated Pressure						
	Pressure Media	All Nonconductive, Noncorrosive Liquids or Gases						
	Maximum Electrical Current	25 mA						
	Rated Electrical Excitation	8 - 16 VDC				13 - 32 VDC		
OUTPUT	Full Scale Reading	5 VDC ± 150 mV			5 VDC ± 150 mV or 10 VDC ± 300 mV			
	Output Impedance	200 Ohms (Nom.)						
	Bandwidth (-3dB)	DC to 3000 Hz						
	Residual Unbalance	0.5V ± 75mV						
	Combined Non-Linearity, Hysteresis and Repeatability	± 0.1% BFSL (Typ.), ± 0.5% BFSL (Max.)						
	Resolution	Infinitesimal						
	Natural Frequency of Sensor Without Screen (KHz) (Typ.)	Greater Than 400 KHz						
	Acceleration Sensitivity % FS/g Perpendicular	1.0x10 ⁻³	5.2x10 ⁻⁴	2.2x10 ⁻⁴	1.1x10 ⁻⁴	6.2x10 ⁻⁵	2.6x10 ⁻⁵	1.5x10 ⁻⁵
	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		± 3% FS/100°F (Typ.)						
Thermal Sensitivity Shift		± 3% /100°F (Typ.)						
Linear Vibration		10-2,000 Hz Sine, 100g (Max.)						
PHYSICAL	Mechanical Shock	20g half Sine Wave 11 msec. Duration						
	Electrical Connection	3 30 AWG Leads 30" (762) 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.)							

