IGH TEMPERATURE 5 VDC OUTPUT PRESSURE TRANSDUCER

ETM-HT-400-375 (M) SERIES

- 5 VDC Output
- 350°F Temperature Capability
- Hybrid Microelectronic Regulator-Amplifier
- Flush Diaphragm
- All Welded Construction

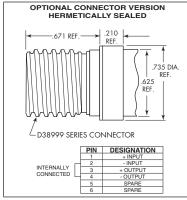
 Secondary Containment On Absolute And Sealed Gage Units

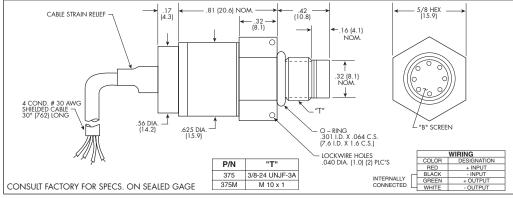
- Aerospace Quality Components
- 3/8-24 UNJF or M10 X 1 Thread
- 4 Wire



ETM-HT-400-375 series transducers are miniature, threaded flush diaphragm instruments. They utilize a flush metal diaphragm as a force collector. Force is transferred to a solid state piezoresistive sensing element via a thin intervening film of non-compressible silicone oil. This sensing subassembly is protected from mechanical damage by a solid screen which has been shown to have minimal influence on the frequency response of the sensor. For applications where a true flush

diaphragm is needed, Kulite will supply these transducers without the screen. Incorporation of a Kulite proprietary electronics module within the main body of this product allows for operation from an unregulated power supply of 12 ± 4 VDC or 28 ± 4 VDC. Standard output is a stable, low noise .5 to 5 VDC signal.





6 SPARE	CONSOLITACIO	KT TOK STEES. OIT SEA	LED GAGE			WHITE - OUTPUT
INPUT Pressure Range	35 500	70 1000	170 2500	350 5000	700 10000	1400 BAR 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 or 316 Stainlesss Steel					
Maximum Electrical Current	25 mA					
Rated Electrical Excitation	12 ± 4 VDC or 28 ± 4 VDC					
OUTPUT Full Scale Readiing	5 VDC ± 150mV					
Output Impedance	200 Ohms (Max.)					
Bandwidth (-3dB)	DC to 3 KHz					
Residual Unbalance	500 mV ± 100 mV					
Combined Non-Linearity, Hysteresis and Repeatability	± 0.1% FSO BFSL (Typ.), ± 0.5% FSO (Max.)					
Resolution	Infinitesimal					
Natural Frequency (KHz) (Typ.)	Greater Than 400 KHz					
Acceleration Sensitivity % FS/g Perpendicular Transverse	1.1x10 ⁻⁴ 7.0x10 ⁻⁶	6.2x10 ⁻⁵ 4.3x10 ⁻⁶	2.6x10 ⁻⁵ 2.3x10 ⁻⁶	1.5x10⁻⁵ 1.5x10⁻⁶	1.3x10 ⁻⁵ 1.3x10 ⁻⁶	8.0x10 ⁻⁶ 1.0x10 ⁻⁶
Insulation Resistance	100 Megohm Min. @ 50 VDC					
ENVIRONMENTAL Operating Temperature Range	-65°F to +350°F (-55°C to +175°C)					
Compensated Temperature Range	-40°F to +350°F (-40°C to +175°C) Other Ranges Quoted on Request					
Thermal Zero Shift	± 1% FS/100° F (Typ.)					
Thermal Sensitivity Shift	± 1% /100° F (Typ.)					
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					
PHYSICAL Electrical Connection	4 Conductor 30 AWG Shielded Cable 30" 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.)					