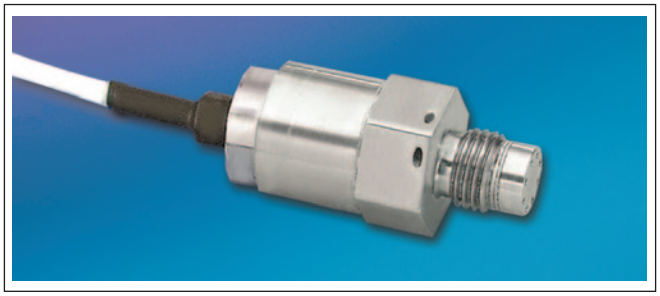
5 VDC OUTPUT MICROPROCESSOR CORRECTED IS® PRESSURE TRANSDUCER

ETL-DC-375 (M) SERIES

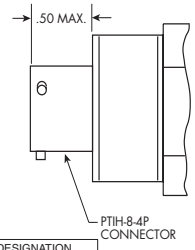
- 5 VDC Microprocessor Corrected Output
- Hybrid Microelectronic Regulator-Amplifier
- Patented Leadless Technology **VIS®**
- All Welded Construction
- Secondary Containment On Absolute And Sealed Gage Units
- Aerospace Quality Components
- Analog Output
- Intrinsically Safe Applications Available (i.e. IS-ETL-DC-375)



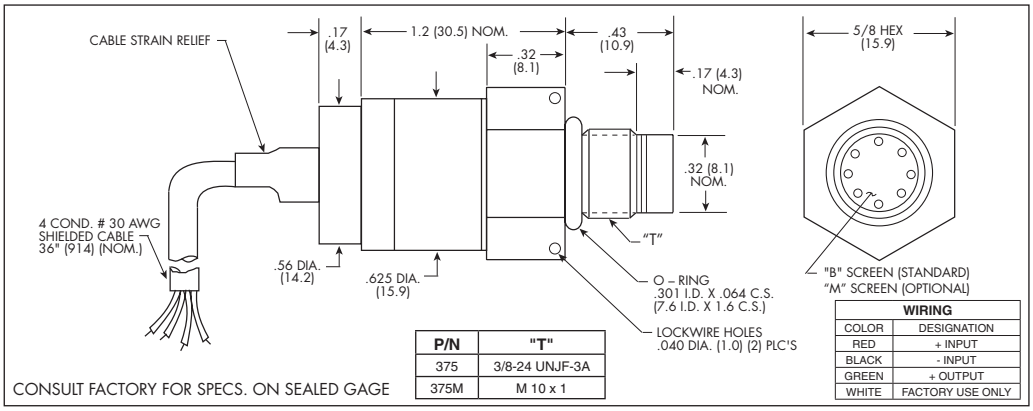
ETL-375 Series transducers are miniature, threaded instruments. The sensing sub-assembly is protected from mechanical damage by a solid screen which has been shown to have minimal influence on the frequency response of the sensor. The ETL Series uses Kulite's Patented Leadless Technology.

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, microprocessor corrected 0 to 5 VDC output signal.

OPTIONAL CONNECTOR VERSION HERMETICALLY SEALED



PIN	DESIGNATION
A	+ INPUT
B	- INPUT/RETURN
C	+ OUTPUT
D	FACTORY USE ONLY



CONSULT FACTORY FOR SPECS. ON SEALED GAGE

P/N	"T"
375	3/8-24 UNJF-3A
375M	M 10 x 1

WIRING	
COLOR	DESIGNATION
RED	+ INPUT
BLACK	- INPUT
GREEN	+ OUTPUT
WHITE	FACTORY USE ONLY

INPUT Pressure Range	1.7 25	3.5 50	7 100	17 250	35 500	70 1000	170 2500	350 BAR 5000 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 Max. of 10000 PSI (700 BAR)							
Pressure Media	All Nonconductive, Noncorrosive Liquids or Gases (Most Conductive Liquids and Gases - Please Consult Factory)							
Maximum Electrical Current	25 mA							
Rated Electrical Excitation	8 - 32 VDC							
OUTPUT 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							
ENVIRONMENTAL 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							
PHYSICAL 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 Patented Leadless Technology							
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 (C).