

5 VDC OUTPUT PRESSURE TRANSDUCER ETM/ETL-422(X)-375 (M) SERIES

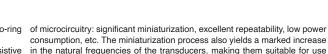
- 5 VDC Output
- Hybrid Microelectronic Regulator-Amplifier
- All Welded Construction
- Hermetic Sealed Package
- Aerospace Quality Components

assembly is welded to a stainless steel body

- "X" Identifies Electrical Connection Option
- Thermorad Jacket Compatible With Most Aircraft Fluids
- Patented Leadless Technology
- · Intrinsically Safe Applications Available

(i.e. IS-ETM-422(X)-375)



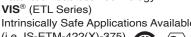


from an unregulated power supply of 18 to 36 VDC. Standard output is a stable, low noise 0.25 to 5 VDC signal.

Part performance not guaranteed if used in water (ETL only).

even in shock pressure measurements. Incorporation of a Kulite proprietary

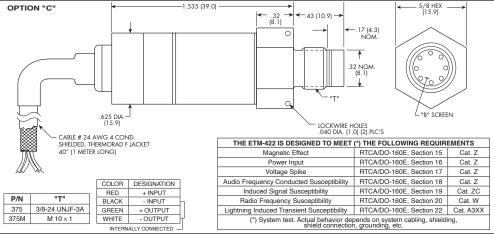
electronics module within the main body of this product allows for operation



The ETM/ETL-422(X)-375 is a miniature threaded pressure transducer. The hexagonal head and o-ring seal make it easy to mount and simple to apply. The ETM-422(X)-375 utilizes a flush metal diaphragm as a force collector. A solid state piezoresistive sensing element is located immediately behind this metal diaphragm which is protected by a metal screen. Force transfer is accomplished via an intervening film of non-compressible silicone oil. This sensing sub

The ETL-422(X)-375 utilizes Kulite's Patented Leadless Technology. A solid state piezoresistive sensing element is protected by a metal screen. This sensing sub assembly is welded to a stainless steel body. This advanced construction results in a highly stable, reliable and rugged instrument with all the advantages

OPTIONAL CONNECTOR VERSION HERMETICALLY SEALED 0 DESIGNATION 625 REF. + INPUT + OUTPUT - OUTPUT INTERNALLY CONNECTED -PTIH-8-4P CONNECTOR OR EQUIVALENT (OPTION "B" PIN DESIGNATION - INPUT .625 REF. SPARE INTERNALLY CONNECTED D38999/25YA35PN SERIES CONNECTOR OR EQUIVALENT OPTION "A" CONSULT FACTORY FOR SPECS. ON SEALED GAGE



INPUT	Pressure Range	1.7 25	TL 3.5 BAR 50 PSI	7 100	17 250	35 500	ETM 70 1000	140 2000	210 3000	350 BAR 5000 PSI
	Operational Mode	Absolute Absolute, Sealed Gage								
	Over Pressure	2 Times Rated Pressure to a Max. of 25000 PSI (1724 BAR)								
	Burst Pressure	3 Times Rated Pressure to a Max. of 25000 PSI (1724 BAR)								
	Pressure Media	All Nonconductive, Noncorrosive Liquids or Gases (Most Conductive Liquids and Gases-Consult Factory)			Any Liquid or Gas Compatible With 15-5 PH and 316 Stainless Steel					
	Rated Electrical Excitation	16 to 32 VDC								
	Maximum Electrical Current	25 mA								
OUTPUT	Output Impedance	200 Ohms (Max.)								
	Full Scale Reading	5 VDC								
	Bandwidth (-3dB)	DC to 5 KHz								
	Residual Unbalance	250 mV								
	Resolution	Infinitesimal								
	Insulation Resistance	100 Megohm Min. @ 50 VDC								
PHYSICAL ENVIRONMENTAL	Operating Temperature Range	-65°F to +275°F (-55°C to +135°C)								
	Compensated Temperature Range	-65°F to +250°F (-55°C to +120°C)								
	Total Error Band	± 2% FSO +32°F to 180°F (0°C to +85°C) Increasing to ± 3% At All Other Temperatures Within The Compensated Range (TEB Includes: Non-linearity, Non-repeatability, Hysteresis, End Point Settings, Temperature Effects on Zero and Span Within the Compensated Range)								
	Linear Vibration	20g Peak, Sine 10 to 2000 Hz								
	Altitude	Unaffected								
	Humidity	100% Relative Humidity								
	Mechanical Shock	20g half Sine Wave 11 msec. Duration								
	Electrical Connection	OPTION A: D38999/25YA35PN Connector or Equivalent, OPTION B: PTIH-8-4P Connector or Equivalent, OPTION C: 4 Conductor 24 AWG Shielded, Thermorad F Jacketed Cable, 40" (1 Meter)								
	Weight	80 Grams (Max.) Including Cable or Connector								
	Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon (Patented Leadless Technology ETL Series)								
-	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. (V) Continuous development and refinement of our products may result in specification changes without notice. Copyright © 2014 Kulite Semiconductor Products, Inc. All Rights Reserved.