



RATIOMETRIC OUTPUT PRESSURE TRANSDUCER

ETM-435-375(M) SERIES

- Ratiometric Amplified Output
- Hybrid Microelectronic Amplifier
- Flush Diaphragm
- All Welded Construction
- Secondary Containment On Absolute And Sealed Gage Units
- 3/8-24 UNJF or M10 X 1 Thread
- Designed For Industrial and Automotive Applications
- Intrinsically Safe Applications Available (i.e. IS-ETM-435(X)-375)

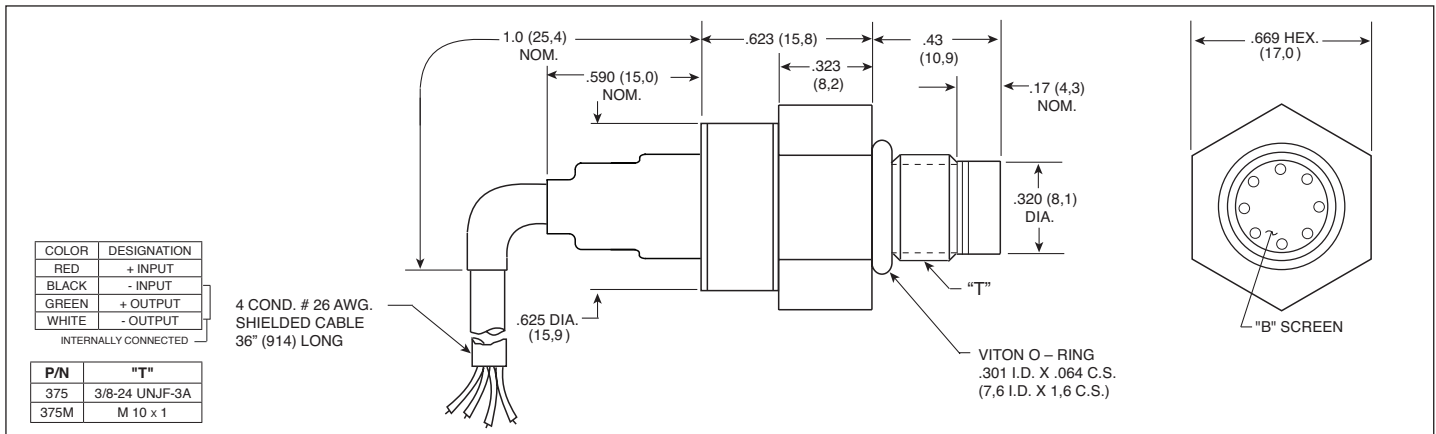


The ETM-435-375 is a miniature threaded pressure transducer. The hexagonal head and o-ring seal make it easy to mount and simple to apply.

The ETM-435-375 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

non-compressible silicone oil. This sensing sub assembly is welded to a stainless steel body.

Incorporation of a Kulite proprietary electronics module within the main body of this product allows for operation from a ratiometric power supply of 5 VDC. Standard output is a stable, low noise 0.5 to 4.5 VDC signal.



INPUT	Pressure Range	3.5 50	7 100	10 145	17 350	35 500	50 725	70 1000	170 2500	350 5000	700 BAR 10000 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 25000 PSI (1724 BAR)										
	Burst Pressure	3 Times Rated Pressure to a Max. of 25000 PSI (1724 BAR)										
	Pressure Media	Any Liquid or Gas Compatible with 15-5 PH and 316 Stainless Steel or Incorel 625 (All Media May Not Be Suitable with O-Ring Supplied)										
	Maximum Electrical Current	20 mA										
	Rated Electrical Excitation	5 VDC ± 0.25 VDC										
OUTPUT	Output	0.5 to 4.5 VDC Ratiometric										
	Output Impedance	200 Ohms (Max.)										
	Bandwidth (-3dB)	DC to 3 KHz										
	Accuracy (Total Error Band) Combined Non-Linearity & Hysteresis & Temperature & End Point Settings	± 2.7% F.S.O. (Max.)										
	Resolution	Infinitesimal										
	Acceleration Sensitivity % FS/g Perpendicular	3.0x10 ⁻⁴	1.5x10 ⁻⁴	2.8x10 ⁻⁴	2.2x10 ⁻⁴	1.1x10 ⁻⁴	8.0x10 ⁻⁵	6.2x10 ⁻⁵	2.6x10 ⁻⁵	1.5x10 ⁻⁵	1.3x10 ⁻⁵	
ENVIRONMENTAL	Insulation Resistance	100 Megohm Min. @ 50 VDC										
	Operating Temperature Range	-40°F to +275°F (-40°C to +135°C)										
	Compensated Temperature Range	-13°F to +275°F (-25°C to +135°C) Other Ranges Quoted on Request										
	Linear Vibration	20g Peak, Sine 10 to 2000 Hz										
PHYSICAL	Mechanical Shock	20g Half Sine Wave 11 msec. Duration										
	Electrical Connection	4 Conductor 26 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										
Mounting Torque	80 Inch-Pounds (Max.) 9 Nm											

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. (I) Continuous development and refinement of our products may result in specification changes without notice. Copyright © 2014 Kulite Semiconductor Products, Inc. All Rights Reserved. Kulite miniature pressure transducers are intended for use in test and research and development programs and are not necessarily designed to be used in production applications. For products designed to be used in production programs, please consult the factory.