



MINIATURE 5V DUAL CHANNEL OUTPUT PRESSURE TRANSDUCER WITH INTEGRATED TEMPERATURE SENSOR

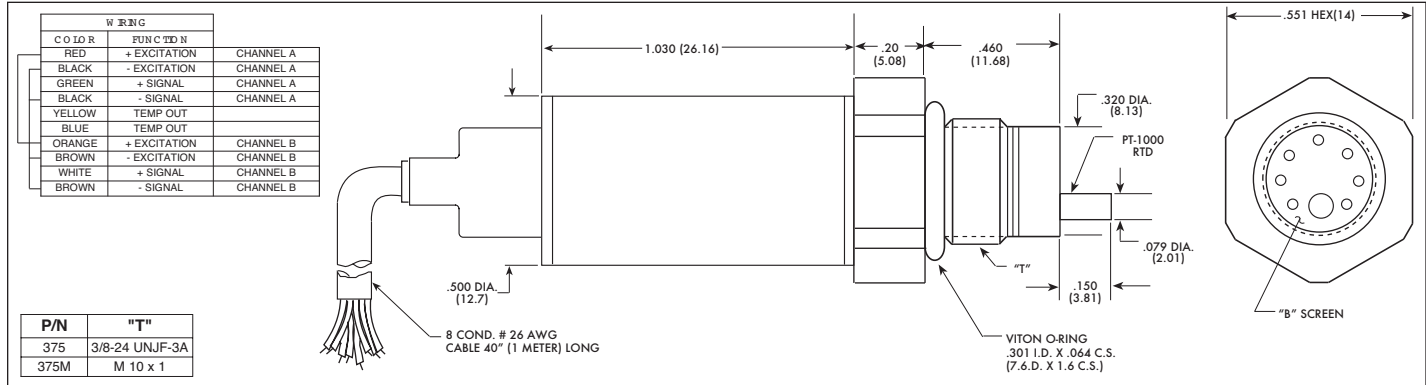
ETLR/T-634-375 (M) SERIES

- Two Independent Sensing Element For Redundancy
- Dual Output Signal
- Combined Pressure and Temperature Measurement Capability
- Patented Leadless Technology **VIS[®]**
- Robust Construction
- Designed For Industrial and Automotive Applications



The ETLR/T-634-375 (M) is a miniature threaded redundant pressure transducer/platinum RTD combination. The two pressure transducers utilize a patented leadless technology. The platinum RTD protrudes beside the diaphragm to sense media temperature. The pressure and temperature devices are designed to operate independently. All wetted parts of the transducer are compatible with most industrial and automotive fluids.

Part performance not guaranteed if used in water.



INPUT	Pressure Range	1.7 25	3.5 50	7 100	17 250	35 500	70 1000	170 2500	250 BAR 3600 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								
	Pressure Media	Most Conductive Liquids and Gases - Please Consult Factory (All Media May Not Be Suitable With O-Ring Supplied)								
	Maximum Electrical Current	25 mA								
	Rated Electrical Excitation	12 ± 4 VDC								
	RTD Excitation	1mA (2mA Max.)								
OUTPUT	Full Scale Reading	5 VDC ± 75mV (3 Wire System, Single Ended Dual Output)								
	Output Impedance	200 Ohms (Nom.)								
	RTD	1000 Ohms Platinum, DIN EN 60751 Tables, Class A (65% Response Time 3 Seconds Max.)								
	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								
	Acceleration Sensitivity % FS/g Perpendicular	5.0x10 ⁻⁴	3.0x10 ⁻⁴	1.5x10 ⁻⁴	1.0x10 ⁻⁴	6.0x10 ⁻⁵	4.0x10 ⁻⁵	2.5x10 ⁻⁵	1.7x10 ⁻⁵	
ENVIRONMENTAL	Insulation Resistance	100 Megohm Min. @ 50 VDC								
	Operating Temperature Range	-65°F to +365°F (-55°C to +185°C)								
	Compensated Temperature Range	-65°F to +350°F (-55°C to +175°C)								
	Total Error Band (Excluding End Point)	± 2% FS/180°F (100°C) ≤ 217.5 PSI (15 BAR), ± 1% FS/180°F (100°C) ≥ 217.5 PSI (15 BAR)								
PHYSICAL	Linear Vibration	20g Peak, Sine 10 to 2000 Hz								
	Mechanical Shock	20g Half Sine Wave 11 msec. Duration								
	Electrical Connection	8 Conductor 26 AWG Cable 40" (1 Meter) Long								
	Weight	20 Grams Excluding Cable								
	Pressure Sensing Principle	Two Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology								
Mounting Torque	50 Inch-Pounds (Max.) 6Nm									

Note: Custom pressure ranges, accuracies, mechanical configurations and RTD resistance available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. (K) 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.