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

ETLR/T-634-375 (M) SERIES

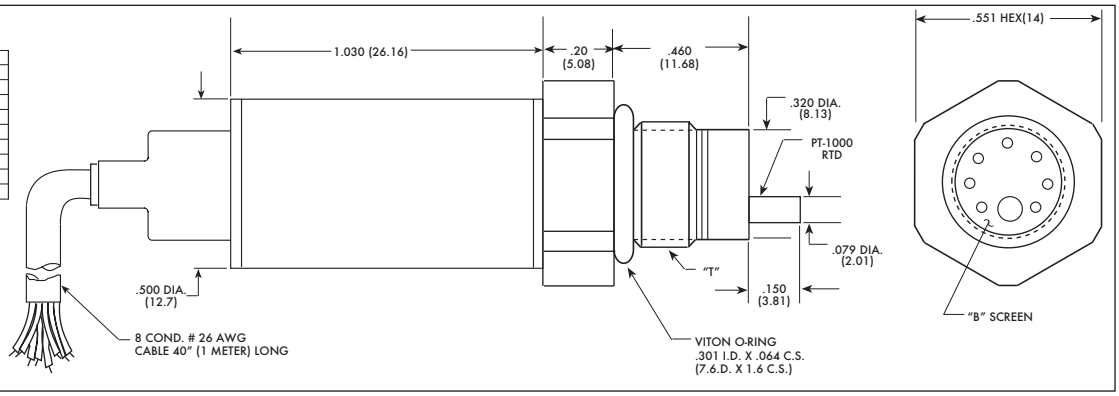
- Two Independent Sensing Element For Redundancy
- Dual Output Signal
- Combined Pressure and Temperature Measurement Capability
- Patented Leadless Technology **VIS**®
- Robust Construction
- Designed For Industrial and Automotive Applications

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.

WIRING		
COLOR	FUNCTION	
RED	+ EXCITATION	CHANNEL A
BLACK	- EXCITATION	CHANNEL A
GREEN	+ SIGNAL	CHANNEL A
BLACK	- SIGNAL	CHANNEL A
YELLOW	TEMP OUT	
BLUE	TEMP OUT	
ORANGE	+ EXCITATION	CHANNEL B
BROWN	- EXCITATION	CHANNEL B
WHITE	+ SIGNAL	CHANNEL B
BROWN	- SIGNAL	CHANNEL B

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



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	$5.0x10^{-4}$	$3.0x10^{-4}$	$1.5x10^{-4}$	$1.0x10^{-4}$	$6.0x10^{-5}$	$4.0x10^{-5}$	$2.5x10^{-5}$	$1.7x10^{-5}$
	Insulation Resistance	100 Megohm Min. @ 50 VDC							
ENVIRONMENTAL	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)							
	Linear Vibration	10-2,000 Hz Sine, 100g. (Max.)							
	Mechanical Shock	20g half Sine Wave 11 msec. Duration							
PHYSICAL	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. (J)

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.