

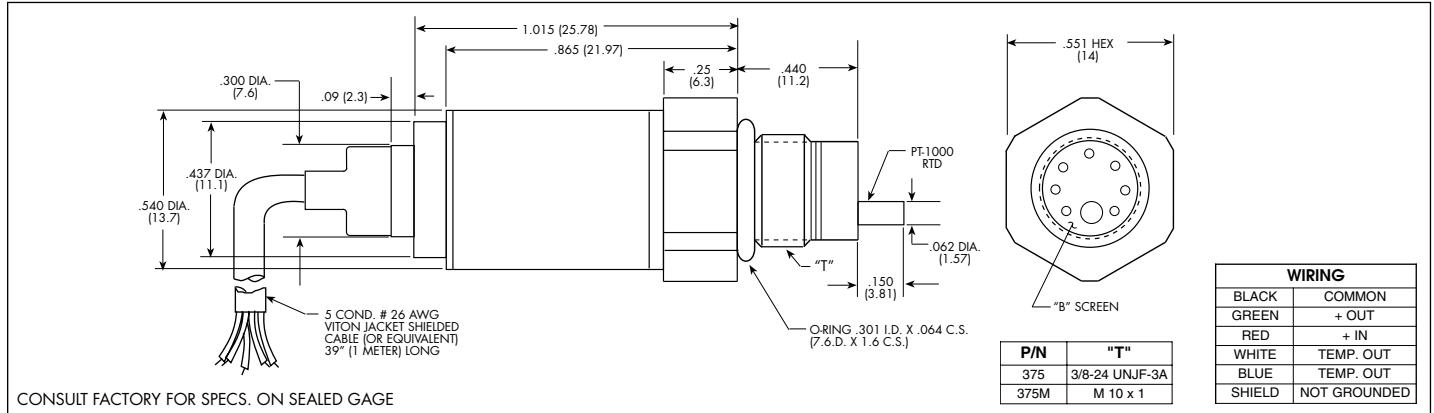


MINIATURE 5V OUTPUT HIGH TEMPERATURE IS[®] PRESSURE TRANSDUCER WITH INTEGRATED TEMPERATURE SENSOR

ETL/T-375 (M) SERIES

- Combined Pressure and Temperature Capability
- Robust Construction
- Excellent Long Term Stability
- Patented Leadless Technology

The ETL/T-375 is a miniature threaded pressure transducer/platinum RTD combination. The pressure transducer utilizes a patented silicon on silicon design. 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 aircraft and automotive fluids.



WIRING	
BLACK	COMMON
GREEN	+ OUT
RED	+ IN
WHITE	TEMP. OUT
BLUE	TEMP. OUT
SHIELD	NOT GROUNDED

CONSULT FACTORY FOR SPECS. ON SEALED GAGE

	1.7	3.5	7	17	35	70	170	250 BAR
	25	50	100	250	500	1000	2500	3600 PSI
INPUT								
Pressure Range								
Operational Mode	Absolute, Sealed Gage							
Over Pressure	2 Times Rated Pressure							
Burst Pressure	3 Times Rated Pressure							
Pressure Media	All Nonconductive, Noncorrosive Liquids or Gases (Most Conductive Liquids and Gases - Please Consult Factory)							
Rated Electrical Excitation	12 ± 4 VDC or 28 ± 4 VDC							
Maximum Electrical Excitation	25 mA							
OUTPUT								
Output Impedance	200 Ohms (Nom.)							
Full Scale Reading	5 VDC ± 75mV (3 Wire System Single Ended Output)							
RTD	1000 Ohms Platinum, DIN EN 60751 Tables (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
Transverse	6.0x10 ⁻⁵	4.0x10 ⁻⁵	2.0x10 ⁻⁵	1.0x10 ⁻⁵	6.0x10 ⁻⁶	4.0x10 ⁻⁶	2.2x10 ⁻⁶	1.8x10 ⁻⁶
Insulation Resistance	100 Megohm Min. @ 50 VDC							
ENVIRONMENTAL								
Operating Temperature Range	-65°F to +375°F (-55°C to +190°C)							
Compensated Temperature Range	-65°F to +350°F (-55°C to +175°C)							
Thermal Zero Shift	± 1% FS/100°F (Typ.)							
Thermal Sensitivity Shift	± 1% FS/100°F (Typ.)							
Steady Acceleration and Linear Vibration	100g Peak, Sine up to 5000 Hz							
Humidity	100% Relative Humidity							
Mechanical Shock	100g 11 msec. 10,000g. 100µ sec.							
PHYSICAL								
Electrical Connection	5 Conductor 26 AWG Viton Jacket Shielded Cable (or Equivalent) 39" (1 Meter Long)							
Weight	20 Grams Excluding Cable							
Pressure Sensing Principle	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.

Continuous development and refinement of our products may result in specification changes without notice - all dimensions nominal. (B)

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