



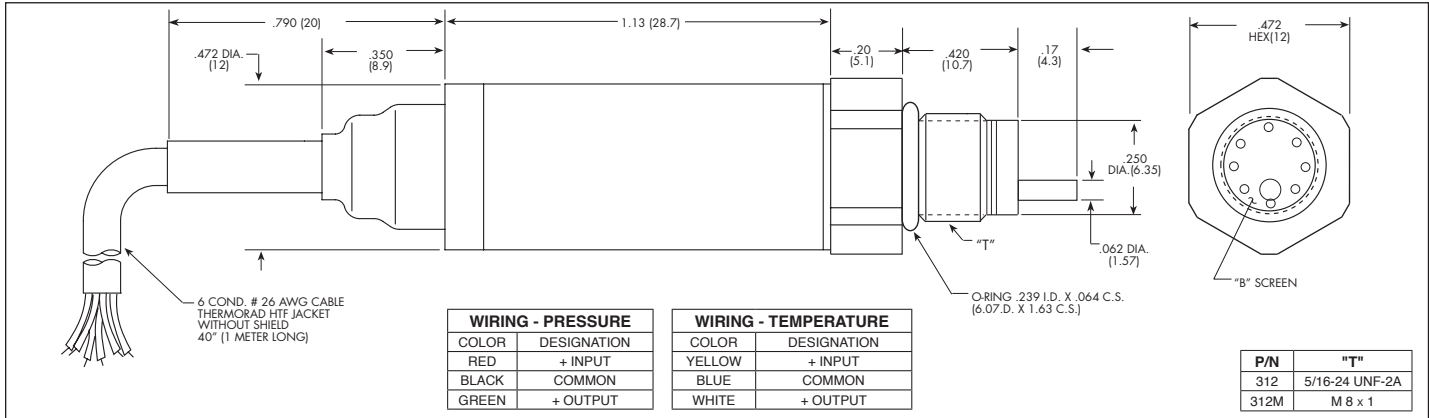
MINIATURE PRESSURE TRANSDUCER WITH INTEGRATED TEMPERATURE SENSOR

EPTS-312 (M) SERIES

- Robust Construction
- Voltage Output
- Excellent Long Term Stability
- Fast Response Time
- High Temperature
- High Reliability
- Excellent For High Vibration and Thermal Shock
- Low Self Heating
- Silicon on Silicon Integrated Sensor **VIS[®]**



The EPTS-312 is a miniature threaded pressure transducer/platinum RTD combination. The pressure transducer utilizes a patented silicon on silicon design.



PRESSURE SENSOR	
Pressure Range	17 35 70 140 250 350 BAR 250 500 1000 2000 3600 5000 PSI
Operational Mode	Absolute
Proof Pressure	2 Times Rated Pressure < 35 BAR, 1.5 Times Rated Pressure ≥ 35 BAR
Burst Pressure	3 Times Rated Pressure
Rated Electrical Excitation	12 ± 4 VDC
Output Type	3-Wire Amplified, Single Ended Output
Full Scale Output	5V ± 3%
Residual Unbalance	500 mV ± 50 mV
Combined Non-Linearity, Hysteresis and Repeatability	± 0.2% FSO BFSL (Typ.), ± 0.4% (Max.)
Resolution	Infinitesimal
Operating Temperature Range	-67°F to +400°F (-55°C to +200°C)
Compensated Temperature Range	-40°F to +350°F (-40°C to +175°C)
Thermal Zero Shift	± 2.0% FSO/100°C
Thermal Sensitivity Shift	± 2.0% /100°C
TEMPERATURE SENSOR	
Sensing Principle	Platinum Class A RTD
Rated Electrical Excitation	12 ± 4 VDC
Output Type	3-Wire Amplified, Single Ended Output
Full Scale Output	5V ± 3%
Residual Unbalance	500 mV ± 50 mV
Resolution	Infinitesimal
Operating Temperature Range	-67°F to +400°F (-55°C to +200°C)
Compensated Temperature Range	-40°F to +350°F (-40°C to +175°C)
Response Time	2 Sec. (Typ.)
Media	Any Fluid Compatible With 15-5, 316 Stainless Steel and SiO ₂
Insulation Resistance	100 Megohm (Min.) @ 50 VDC
Steady Acceleration and Linear Vibration	20g Peak, Sine 10 to 2000 Hz
Mounting Torque	50 Inch-Pounds (Max.) 6Nm
Weight	40 Grams (Max.) Excluding Cable

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