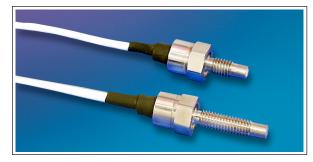
MINIATURE RUGGEDIZED PRESSURE TRANSDUCER XT-190 (M) SERIES

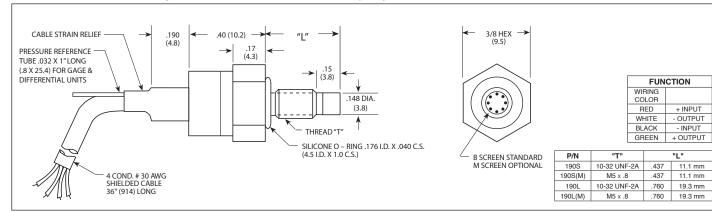
Easy Installation

- Silicon on Silicon Integrated Sensor VIS[®]
- High Natural Frequency

The ruggedness of this sensor has not compromised its performance. It was designed for ease of installation.



Kulite recommends the KSC Series of signal conditioners to maximize the measurement capability of the XT-190 transducer.



Pressure Range 0.35 0.7 1 1.7 3.5 7 17 35 70 Operational Mode 5 10 15 25 50 100 250 500 1000 Operational Mode Absolute, Gage, Differential Absolute, Gage, Sealed Gage, Differential Absolute, Sealed Gage, Differential		
Operational Mode Differential Differential Over Pressure 2 Times Rated Pressure to 500 PSI (35 BAR), 1.5 Times Rated Pressure Above 500 PSI (35 BAR) Burst Pressure 3 Times Rated Pressure to a Maximum of 5000 PSI (350 BAR) Pressure Media All Nonconductive, Noncorrosive Liquids or Gases (All Media May Not Be Suitable With O-Ring Suitable W		
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All Nonconductive, Noncorrosive Liquids or Gases (All Media May Not Be Suitable With O-Ring Su		
All Nonconductive, Noncorrosive Liquids or Gases (All Media May Not Be Suitable With O-Ring Su		
Rated Electrical Excitation 10 VDC/AC	oplied)	
Maximum Electrical Excitation 12 VDC/AC		
Input Impedance 1000 Ohms (Min.)		
Output Impedance 1000 Ohms (Nom.)		
Full Scale Output (FSO) 100 mV (Nom.)		
Residual Unbalance ± 5 mV (Typ.)		
Long Combined Non-Linearity, Hysteresis and Repeatability ± 0.1% FSO BFSL (Typ.), ± 0.5% FSO (Max.)		
and Repeatability Resolution Infinitesimal		
Natural Frequency of Sensor Without Screen (KHz) (Typ.) 150 175 200 240 300 380 550 700	1000	
Acceleration Sensitivity % FS/g Perpendicular 1.5x10 ⁻³ 1.0x10 ⁻³ 6.5x10 ⁻⁴ 5.0x10 ⁻⁴ 3.0x10 ⁻⁴ 1.5x10 ⁻⁴ 1.0x10 ⁻⁴ 6.0x10 ⁻⁵	4.5x10 ⁻⁵	
Insulation Resistance 100 Megohm Min. @ 50 VDC		
Operating Temperature Range -65°F to +350°F (-55°C to +175°C)		
Compensated Temperature Range +80°F to +180°F (+25°C to +80°C) Any 100°F Range Within The Operating Range on Reque	t	
Visit ± 1% FS/100°F (Typ.) Thermal Sensitivity Shift ± 1% /100°F (Typ.) Mechanical Shock 20g Half Sine Wave 11 msec. Duration		
Thermal Sensitivity Shift ± 1% /100°F (Typ.)	± 1% /100°F (Typ.)	
Mechanical Shock 20g Half Sine Wave 11 msec. Duration		
Linear Vibration 20g Peak, Sine 10 to 2000 Hz		
Electrical Connection (Standard) 4 Conductor 30 AWG Shielded Cable 36" Long	4 Conductor 30 AWG Shielded Cable 36" Long	
Weight 4 Grams (Nom.) Excluding Cable		
Weight 4 Grams (Nom.) Excluding Cable Pressure Sensing Principle Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon		
Mounting Torque 15 Inch-Pounds (Max.) 1.7 Nm		

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. (T) Continuous development and refinement of our products may result in specification changes without notice. Copyright © 2017 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.