



# MINIATURE RUGGEDIZED HIGH TEMPERATURE PRESSURE TRANSDUCER

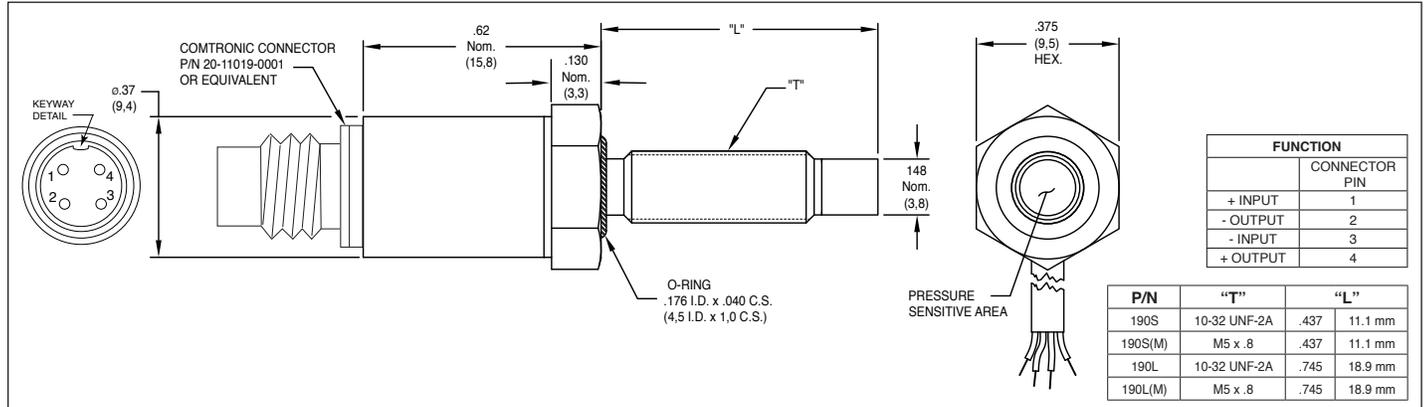
## XTME-100-190 (M) SERIES

- Wide Temperature Capability -20°F To 450°F
- Excellent Stability
- High Natural Frequency
- Inorganically Bonded Sensor
- Robust Construction

The XTME-100-190 Series transducers are physically identical to the XTM-100-90 Series. High temperature material and assembly processes allow continuous use at maximum operating temperatures of +450°F (+232°C).



Kulite recommends the **KSC Series** of signal conditioners to maximize the measurement capability of the XTME-100-190 transducer.



INPUT	Pressure Range	1.7 25	3.5 50	7 100	17 250	35 500	70 1000	170 2500	350 BAR 5000 PSI	
	Operational Mode	Absolute		Absolute, Sealed Gage						
	Over Pressure	2 Times Rated Pressure				1.5 Times Rated Pressure				
	Burst Pressure	3 Times Rated Pressure to a Maximum of 6000 PSI (420 BAR)								
	Pressure Media	Any Liquid or Gas Compatible With 17-4 PH or 15-5 Stainless Steel (All Media May Not Be Suitable With O-Ring Supplied)								
	Rated Electrical Excitation	10 VDC								
	Maximum Electrical Excitation	12 VDC								
	Input Impedance	650 Ohms (Min.)								
OUTPUT	Output Impedance	1000 Ohms (Nom.)								
	Full Scale Output (FSO)	75 mV (Nom.)								
	Residual Unbalance	± 5 mV (Typ.)								
	Combined Non-Linearity, Hysteresis and Repeatability	±1% FSO BFSL (Typ.)								
	Resolution	Infinitesimal								
	Natural Frequency (KHz) (Typ.)	75	95	125	210	290	410	560	930	
ENVIRONMENTAL	Acceleration Sensitivity % FS/g Perpendicular	2.3x10 <sup>-3</sup>	1.4x10 <sup>-3</sup>	9.6x10 <sup>-4</sup>	6.2x10 <sup>-4</sup>	4.3x10 <sup>-4</sup>	3.0x10 <sup>-4</sup>	2.1x10 <sup>-4</sup>	1.3x10 <sup>-4</sup>	
	Insulation Resistance	100 Megohm Min. @ 50 VDC								
	Operating Temperature Range	-20°F to +450°F (-29°C to +232°C)								
	Compensated Temperature Range	+80°F to +450°F (+25°C to +232°C)								
	Thermal Zero Shift	± 3% FS/100°F (Typ.), ± 4% FS/100°F Max				± 2% FS/100°F (Typ.), ± 3% FS/100°F Max				
	Thermal Sensitivity Shift	± 3% /100°F (Typ.), ± 4% /100°F Max				± 2% /100°F (Typ.), ± 3% /100°F Max				
	Linear Vibration	20g Peak, Sine 10 to 2000 Hz								
	Electrical Connection	Comtronic Connector P/N 20-11019-0001 or Equivalent (Mating Connector Available Upon Request)								
	PHYSICAL	Weight	8 Grams (Nom.)							
		Pressure Sensing Principle	Inorganically Bonded Piezoresistive Sensor							
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. (C) Continuous development and refinement of our products may result in specification changes without notice. Copyright © 2020 Kulite Semiconductor Products, Inc. All Rights Reserved.

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