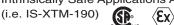
MINIATURE RUGGEDIZED PRESSURE TRANSDUCER XTM-190 (M) SERIES

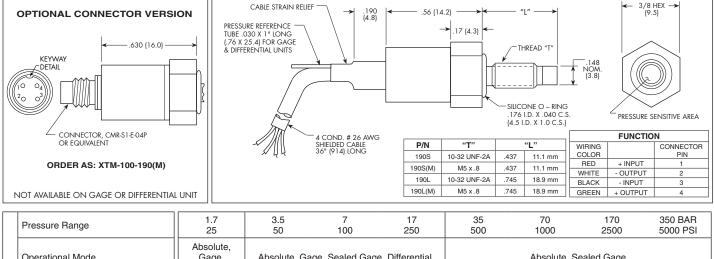
- Excellent Stability
- Licellent Stability
- High Natural Frequency
- Robust Construction
- Intrinsically Safe Applications Available





The XTM-190 miniature pressure transducer utilizes a metal diaphragm as a force collector with a Piezoresistive Sensor as its sensing element. With the threaded body, hexagonal head and o-ring seal, the XTM-190 is easy to mount and simple to apply. The small size and flush diaphragm permit direct installation of the transducer in the wall of pressure containers, tubes, pipes, etc., eliminating the need for costly, space consuming hardware. Differential versions of all ranges up to 500 psi are available. The reference pressure source should be dry, noncorrosive gas. Absolute and sealed versions of the XTM-190 have a reference vacuum sealed in the transducer.





INPUT	Operational Mode	Absolute, Gage, Differential	Absolute, Ga	age, Sealed Gag	e, Differential	Absolute, Sealed Gage			
	Over Pressure	3.5 50	7 100	14 200	35 500	70 1000	140 2000	210 3000	420 BAR 6000 PSI
	Burst Pressure	3 Times Rated Pressure to a Maximum of 6500 PSI (450 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/AC							
	Maximum Electrical Excitation	12 VDC/AC							
	Input Impedance	650 Ohms (Min.)							
	Output Impedance	1000 Ohms (Nom.)							
	Full Scale Output (FSO)	75 mV (Nom.)							
	Residual Unbalance	± 5 mV (Typ.)							
OUTPUT	Combined Non-Linearity, Hysteresis and Repeatability	±1% FSO BFSL (Typ.)							
OUT	Resolution	Infinitesimal							
	Natural Frequency (KHz) (Typ.)	75	95	125	210	290	410	560	930
	Acceleration Sensitivity % FS/g Perpendicular	2.3x10 ⁻³	1.4x10 ⁻³	9.6x10 ⁻⁴	6.2x10 ⁻⁴	4.3x10 ⁻⁴	3.0x10 ⁻⁴	2.1x10 ⁻⁴	1.3x10 ⁻⁴
	Insulation Resistance	100 Megohm Min. @ 50 VDC							
AL	Operating Temperature Range	-20°F to +350°F (-29°C to +175°C)							
ENVIRONMENTAL	Compensated Temperature Range	80°F to 180°F (25°C to 80°C) Any 100°F Range Within The Operating Range on Request							
NN	Thermal Zero Shift	± 2% FS/100°F (Typ.)							
VIR	Thermal Sensitivity Shift	± 2% /100°F (Typ.)							
EN	Linear Vibration	10-2,000 Hz Sine, 20g. (Max.)							
	Electrical Connection	4 Conductor 26 AWG Shielded Cable 36" Long							
ICA	Weight	8 Grams (Nom.) Excluding Cable							
PHYSICAL	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.

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

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.