

XTEH-10L-190 (M) SERIES

- –65°F To 932°F Temperature Capability*
- Patented Leadless Technology VIS®
- · High Natural Frequency
- · Suitable For Turbine Engine Testing

The XTEH Series pressure transducers feature a very wide operating temperature range. These characteristics make these devices ideal for Turbine engine testing. Other equally demanding applications in the industry may also benefit from the ruggedness of these devices. Part performance not guaranteed if used in water.



			900°F (482°C) SEE CHART "C" - 39 ** (10) EXIBLE METAL CABLE *Length must be	.590 (15) 75 (9.5) DIA -1 -6				— .150 (3.8) / EEN STA	ANDARD /	- 375 (9.5) - HEX					
4 CON	ONG x .225 (5.7) DIA. DUCTOR #30 AWG CABLE 0) LONG		stated on P.O. at time of order placement *For these additional lengths, please consul the factory for pricing	-8 DASH -2 t -3	3" "C" 120" 60" 24"	P/N* 190S 190SM 190L 190LM	"T" 10-32 UNF-2A M5 x .8 10-32 UNF-2A M5 x .8	.437 .437 .760	11.1 mm 11.1 mm 19.3 mm 19.3 mm	COLOR RED BLACK GREEN WHITE	DESIGNATION + INPUT - INPUT + OUTPUT - OUTPUT				
Pressure Range	1.7 25	3.5 50	7 100	14 200	21 300		35 500	70 1000		140 2000	210 BAF 3000 PS				
Operational Mode		Absolute, Sealed Gage													
Over Pressure	2 Times R	ated Pre	essure to a Maximum	of 500 PS	SI (35 BAF	R), 1.5 T	imes Rated Pr	2 Times Rated Pressure to a Maximum of 500 PSI (35 BAR), 1.5 Times Rated Pressure Above 500 PSI							

				the factory for p		24" 190L	M M5 x .8	.760 19.3	3 mm WHITE	- OUTPUT	
INPUT	Pressure Range	1.7 25	3.5 50	7 100	14 200	21 300	35 500	70 1000	140 2000	210 BAR 3000 PSI	
	Operational Mode	Absolute, Sealed Gage									
	Over Pressure	2 Times Rated Pressure to a Maximum of 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	Most Liquids and Gases - Please Consult Factory									
	Rated Electrical Excitation	10 VDC									
	Maximum Electrical Excitation	12 VDC									
	Input Impedance	1000 Ohms (Min.)									
ООТРОТ	Output Impedance	1000 Ohms (Nom.)									
	Full Scale Output (FSO)	100 mV (Nom.)									
	Residual Unbalance	± 5 mV (Typ.)									
	Combined Non-Linearity, Hysteresis and Repeatability	± 0.1% FSO BFSL (Typ.) ± 0.5% FSO (Max.)									
	Resolution	Infinitesimal									
	Natural Frequency of Sensor Without Screen (KHz) (Typ.)	240	300	380	500	575	700	1000	1400	1650	
	Acceleration Sensitivity % FS/g Perpendicular	5.0x10 ⁻⁴	3.0x10 ⁻⁴	1.5x10 ⁻⁴	1.1x10 ⁻⁴	9.0x10 ⁻⁵	6.5x10 ⁻⁵	4.0x10 ⁻⁵	2.5x10 ⁻⁵	1.9x10 ⁻⁵	
	Insulation Resistance	100 Megohm Min. @ 50 VDC									
	Operating Temperature Range	-65°F to +932°F* (-55°C to +500°C) - (See limits above)									
Ĭ₹	Compensated Temperature Range	+80°F to +850°F (+25°C to +454°C)									
ENVIRONMENTAL	Thermal Zero Shift	± 1.5% FS/100°F (Typ.)									
N	Thermal Sensitivity Shift	± 1.5% /100°F (Typ.)									
N.	Linear Vibration	20g Peak, Sine 10 to 2000 Hz									
Ē	Mechanical Shock	20g Half Sine Wave 11 msec. Duration									
PHYSICAL	Electrical Connection	4 Conductor 30 AWG Shielded Cable (24" After Module)									
	Weight	8 Grams (Nom.) Excluding Cable									
	Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology									
直	Mounting Torque	70 Inch-Pounds (Max.) 8 N-m									
		-									

^{*}Limited life above 850°F (454°C), dependent on operating conditions.

Note: Requires external compensation module (Max. temp. 400°F) Please refer to outline drawing.

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

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