

MINIATURE RUGGEDIZED IS® PRESSURE TRANSDUCER

XTL-375 (M) SERIES

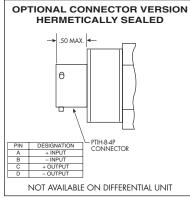
- Excellent Stability
- All Welded Construction
- Robust Construction
- High Natural Frequencies
- 3/8-24 UNJF or M10 X 1 Thread
- Patented Leadless Technology VIS®

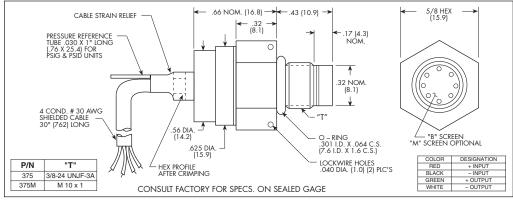
The XTL-375 is a miniature threaded pressure transducer. The hexagonal head and o-ring seal make it easy to mount and simple to apply.

The XTL-375 utilizes Kulite's Patented Leadless Technology. A solid state piezoresistive sensing element is protected by a metal screen. This sensing sub assembly is welded to a stainless steel body.

This advanced construction results in a highly stable, reliable and rugged instrument with all the advantages of microcircuitry: significant miniaturization, excellent repeatability, low power consumption, etc. The miniaturization process also yields a marked increase in the natural frequencies of the transducers, making them suitable for use even in shock pressure measurements.







	PUT essure Range
Οp	erational Mode
Ov	er Pressure
Bu	rst Pressure
Pre	essure Media
Ra	ted Electrical Excitation
Ma	aximum Electrical Excitation
Inp	out Impedance
_	JTPUT Itput Impedance
Fu	Il Scale Output (FSO)
Re	sidual Unbalance
	mbined Non-Linearity, Hysteresis nd Repeatability
Re	solution
Na	tural Frequency (KHz) (Typ.)
Pe	celeration Sensitivity % FS/g rpendicular ansverse
Ins	sulation Resistance
	IVIRONMENTAL perating Temperature Range
Со	mpensated Temperature Range
Th	ermal Zero Shift
Th	ermal Sensitivity Shift
Lir	ear Vibration
Hu	midity
Me	echanical Shock
	IYSICAL ectrical Connection
We	eight
Pre	essure Sensing Principle
Mα	ounting Torque

0.35 5	0.7 10	1.7 25	3.5 50	7 100	17 250	35 500	70 1000	140 BAR 2000 PSI		
	Absolute, Gage, Sealed Gage, Differential Absolute, Sealed Gage									
		2 Times F	Rated Pressure	to a Maximun	of 3000 PSI ((210 BAR)				
		3 Times F	Rated Pressure	to a Maximun	of 3000 PSI ((210 BAR)				
All Nor	nconductive, N	oncorrosive Li	quids or Gases	s (Most Condu	ctive Liquids a	nd Gases - Ple	ease Consult F	actory)		
				10 VDC/AC						
				15 VDC/AC						
			1(000 Ohms (Mir	າ.)					
			10	000 Ohms (Nor	m)					
				100 mV (Nom.						
				± 5 mV (Typ.)	<u>, </u>					
		±	0.1% FSO BF	SL (Typ.), ± 0	.5% FSO (Max	(.)				
				Infinitesimal						
150	175	240	300	380	550	700	1000	1400		
1.5x10 ⁻³	1.0x10 ⁻³	5.0x10 ⁻⁴	3.0x10 ⁻⁴	1.5x10 ⁻⁴	1.0x10 ⁻⁴	6.0x10 ⁻⁵	4.5x10⁻⁵	2.0x10 ⁻⁵		
2.2x10 ⁻⁴	1.4x10 ⁻⁴	6.0x10 ⁻⁵	4.0x10 ⁻⁵	2.0x10 ⁻⁵	9.0x10 ⁻⁶	6.0x10 ⁻⁶	3.0x10 ⁻⁶	2.0x10 ⁻⁶		
			100 Me	gohm Min. @	50 VDC					
			-65°F to +	350°F (-55°C 1	o +175°C)					
	+80°F to +1	80°F (+25°C	to +80°C) Any	100°F Range \	Within The Ope	erating Range	on Request			
			± 1'	% FS/100°F (T	yp.)					
				1% /100°F (Ty						
			100g Pe	ak, Sine up to	5000 Hz					
			100%	% Relative Hur	nidity					
			20),000g, 100µ s	эс.					
		1	Conductor 30	AWG Shieldon		20				
		4		(Max.) Exclud		19				
Fully A	Active Four Arr	n Wheatstone	Bridge Dielect			con Patented L	eadless Tech	nology		
				n-Pounds (Max				- 37		
hanical confici	urations available	. Dimensions a	are in inches. Dim			meters.				