WINIATURE PRESSURE TRANSDUCER WITH INTEGRATED TEMPERATURE SENSOR

HKL/T-375 (M) SERIES

- Combined Pressure and
- Temperature Measurement Capability
- Robust Construction
- Patented Leadless Technology VIS®
- Designed For Industrial and Automotive Applications

The HKL/T-375 (M) is a miniature threaded pressure transducer/platinum RTD combination. The pressure transducer utilizes a patented silicon on silicon design. The platinum RTD protrudes beside the diaphragm to sense media temperature. The pressure and temperature devices are designed to operate independently. All wetted parts of the transducer are compatible with all common industrial and automotive fluids.

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0	WIRING RED + INPUT JLACK - INPUT BLUE TEMP. OUT LLOW TEMP. OUT	- 6 COND. # 2 SHIELDED C2 40" (1 METE	(140 (3.35) ←		PT-1000 RTD 320 (E 320 (E 320 (E 320 (E 320 (E 320 (E (E) (C) (C) (C) (C) (C) (C) (C) (C			P/N "T" 375 3/8-24 UNJF-3A 375M M 10 x 1
INPUT	Pressure Range	1.7 25	3.5 50	7 100	17 250	35 500	70 1000	170 BAR 2500 PSI
	Operational Mode	Absolute, Sealed Gage						
	Over Pressure	3.5	7	14	35	52	105	210 BAR
		50	100	200	500	750	1500	3000 PSI
	Burst Pressure	3 Times Rated Pressure						
	Pressure Media	Most Liquids and Gases - Please Consult Factory (All Media May Not Be Suitable With O-Ring Supplied)						
	Rated Electrical Excitation	10 VDC						
	Maximum Electrical Excitation							
	RTD Excitation	1mA (2mA Max.)						
	Input Impedance	1000 Ohms (Min.)						
OUTPUT	Output Impedance Full Scale Output (FSO)	1000 Ohms (Nom.)						
	RTD	100 mV (Nom.) 1000 Ohms Platinum, DIN EN 60751 Tables, Class A (65% Response Time 3 Seconds Max.) In Liquid						
	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	550	700	1000	1400
	Acceleration Sensitivity % FS/g Perpendicular	5.0x10 ⁻⁴	3.0x10 ⁻⁴	1.5x10 ⁻⁴	1.0x10 ⁻⁴	6.0x10 ⁻⁵	4.0x10 ⁻⁵	2.5x10 ⁻⁵
	Insulation Resistance	100 Megohm Min. @ 50 VDC						
Ļ	Operating Temperature Range	-65°F to +350°F (-55°C to +175°C)						
ENVIRONMENTAL	Compensated Temperature Range	+80°F to +180°F (+25°C to +80°C) Any 100°F Within The Operating Range on Request						
	Thermal Zero Shift	± 1% FS/100°F (Typ.)						
	Thermal Sensitivity Shift	± 1% /100°F (Typ.)						
	Steady Acceleration	10,000 g. (Max.)						
	Linear Vibration	10-2,000 Hz Sine, 100g (Max.)						
F	Electrical Connection Weight	6 Conductor 26 AWG Shielded Cable 40" (1 Meter) Long 12 Grams Excluding Cable						
SICA	Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon Patented Leadless Technology						
Weight 12 Grams Excluding Cable Pressure Sensing Principle Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silico Mounting Torque 50 Inch-Pounds (Max.) 6N							entou Leauless	, realitionagy
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