

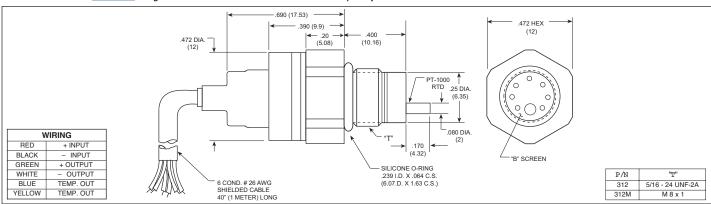
MINIATURE PRESSURE TRANSDUCER WITH INTEGRATED TEMPERATURE SENSOR HKL/T-312 (M) SERIES

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

The HKL/T-312 (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. Part performance not guaranteed if used in water.



Kulite recommends the KSC Series of signal conditioners to maximize the measurement capability of the HKL/T-312 transducer.



Pressure Range 1.7 3.5 7 17 35 Operational Mode 25 50 100 250 500 Absolute, Sealed Gage Over Pressure 3.5 7 14 35 52 7 14 35 52 52 8 7 14 35 52 9 7 14 35 7	70		
Over Pressure 3.5 7 14 35 52	1000	170 BAR 2500 PSI	
	Absolute, Sealed Gage		
50 100 200 500 750	105 1500	210 BAR 3000 PSI	
Burst Pressure 3 Times Rated Pressure			
Burst Pressure 3 Times Rated Pressure Pressure Media Most Liquids and Gases - Please Consult Factory (All Media May Not Be Suitable	With O-Ring Su	pplied)	
Rated Electrical Excitation 10 VDC			
Maximum Electrical Excitation 12 VDC			
RTD Excitation 1mA (2mA Max.)			
Input Impedance 1000 Ohms (Min.)			
Output Impedance 1000 Ohms (Nom.)			
Full Scale Output (FSO) 100 mV (Nom.)			
RTD 1000 Ohms Platinum, DIN EN 60751 Tables, Class A (65% Response Time 3 Se	econds Max.) In I	_iquid	
Residual Unbalance ± 5 mV (Typ.)			
Combined Non-Linearity, Hysteresis and Repeatability ± 0.1% FSO BFSL (Typ.), ± 0.5% FSO (Max.) Resolution Infinitesimal			
Resolution Infinitesimal	Infinitesimal		
Natural Frequency of Sensor Without Screen (KHz) (Typ.) 240 300 380 550 700	1000	1400	
Acceleration Sensitivity % FS/g	4.0x10 ⁻⁵	2.5x10 ⁻⁵	
Perpendicular 5.0x10 ⁻⁴ 3.0x10 ⁻⁴ 1.5x10 ⁻⁴ 1.0x10 ⁻⁴ 6.0x10 ⁻⁵		2.5810	
		2.3x10	
Perpendicular 5.0x10 ⁻⁴ 3.0x10 ⁻⁴ 1.5x10 ⁻⁴ 1.0x10 ⁻⁴ 6.0x10 ⁻⁵ Insulation Resistance 100 Megohm Min. @ 50 VDC Operating Temperature Range -65°F to +350°F (-55°C to +175°C)		2.3x10	
Perpendicular 5.0x10 ⁻⁴ 3.0x10 ⁻⁴ 1.5x10 ⁻⁴ 1.0x10 ⁻⁴ 6.0x10 ⁻⁵ Insulation Resistance 100 Megohm Min. @ 50 VDC Operating Temperature Range -65°F to +350°F (-55°C to +175°C)	ige on Request	2.0x10	
Perpendicular 5.0x10 ⁻⁴ 3.0x10 ⁻⁴ 1.5x10 ⁻⁴ 1.0x10 ⁻⁴ 6.0x10 ⁻⁵ Insulation Resistance 100 Megohm Min. @ 50 VDC Operating Temperature Range -65°F to +350°F (-55°C to +175°C)	ge on Request	2.3810	
Perpendicular 5.0x10 ⁻⁴ 3.0x10 ⁻⁴ 1.5x10 ⁻⁴ 1.0x10 ⁻⁴ 6.0x10 ⁻⁵ Insulation Resistance 100 Megohm Min. @ 50 VDC Operating Temperature Range -65°F to +350°F (-55°C to +175°C)	ge on Request	2.0010	
Perpendicular 5.0x10 ⁻⁴ 3.0x10 ⁻⁴ 1.5x10 ⁻⁴ 1.0x10 ⁻⁴ 6.0x10 ⁻⁵ Insulation Resistance 100 Megohm Min. @ 50 VDC Operating Temperature Range -65°F to +350°F (-55°C to +175°C)	ige on Request	2.0010	
Perpendicular	ge on Request	2.3810	
Perpendicular Insulation Resistance Departing Temperature Range Formula Zero Shift Thermal Sensitivity Shift Thermal Sensitivity Shift Thermal Shock Thermal Shoc	ige on Request	2.3810	
Perpendicular Insulation Resistance Departing Temperature Range Formula Zero Shift Thermal Sensitivity Shift Thermal Sensitivity Shift Thermal Shock Thermal Shoc	ge on Request	2.3810	
Perpendicular			

Note: Custom pressure ranges, accuracies, mechanical configurations and RTD resistance available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. (J) Continuous development and refinement of our products may result in specification changes without notice. Copyright © 2014 Kulite Semiconductor Products, Inc. All Rights Reserved. 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.