



**SUPER HIGH TEMPERATURE
IS® PRESSURE TRANSDUCER**

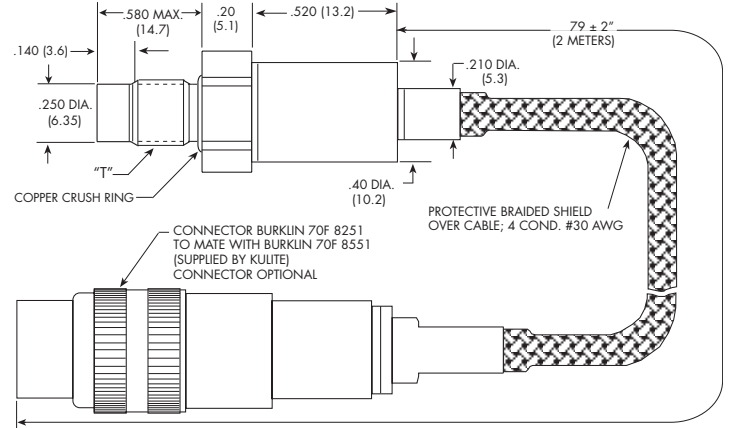
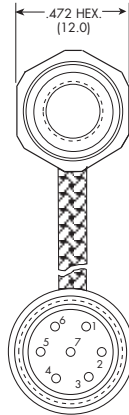
HKMER-312 (M) SERIES

- -65°F To 660°F Temperature Capability
- High Natural Frequency
- Suitable For Downhole Exploration

The HKMER Series pressure transducers feature a very wide operating temperature range. These characteristics make these devices ideal for many applications in hostile environments that require the ruggedness of these devices. Typical applications are oil exploration and applications using superheated steam.



CONSULT FACTORY FOR SPECS. ON SEALED GAGE



PIN FUNCTIONS	
PIN	FUNCTION
1	+ INPUT
2	- INPUT
3	+ OUTPUT
4	- OUTPUT
5	SPARE
6	SPARE
7	SPARE

P/N	"T"
312	5/16-24 UNF-2A
312M	M 8 x 1

INPUT	35	100	350	700 BAR
Pressure Range	500	1500	5000	10000 PSI
Operational Mode	Absolute, Sealed Gage			
Over Pressure	2 Times Rated Pressure			
Burst Pressure	3 Times Rated Pressure			
Pressure Media	Any Liquid or Gas Compatible With 15-5 PH SS or Inconel 625			
Rated Electrical Excitation	10 VDC/AC (Other Excitations Available)			
Maximum Electrical Excitation	15 VDC/AC			
Input Impedance	1000 Ohms (Min.)			
OUTPUT	1000 Ohms (Nom.)			
Output Impedance	100 mV (Nom.)			
Full Scale Output (FSO)	± 5 mV (Typ.)			
Residual Unbalance	± 0.2% FSO BFSL (Typ.)			
Combined Non-Linearity, Hysteresis and Repeatability	Infinitesimal			
Resolution	235	470	710	945
Natural Frequency (KHz) (Typ.)	3.0x10 ⁻⁴	2.0x10 ⁻⁴	9.1x10 ⁻⁵	6.1x10 ⁻⁵
Acceleration Sensitivity % FS/g Perpendicular	1.9x10 ⁻⁵	1.4x10 ⁻⁵	9.0x10 ⁻⁶	5.9x10 ⁻⁶
Transverse	100 Megohm Min. @ 100 VDC			
Insulation Resistance	-65°F to +662°F (-55°C to +350°C) (Front End)			
ENVIRONMENTAL	-65°F to +257°F (-55°C to +125°C) (Connector)			
Operating Temperature Range	+80°F to +572°F (+25°C to +300°C)			
Compensated Temperature Range	± 2.0% FS/100°F (Typ.)			
Thermal Zero Shift	± 2.0% FS/100°F (Typ.)			
Thermal Sensitivity Shift	1,000g. Sine			
Steady Acceleration and Linear Vibration	Burklin 70F 8251 Connector (Mating Connector Supplied)			
PHYSICAL	15 Grams (Nom.) Excluding Cable			
Electrical Connection	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon			
Weight	177 Inch-Pounds (Max.) 20 N-m			
Pressure Sensing Principle				
Mounting Torque				

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters.

Note: Requires external compensation module (Max. temp. 450°F) Please refer to outline drawing.

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