

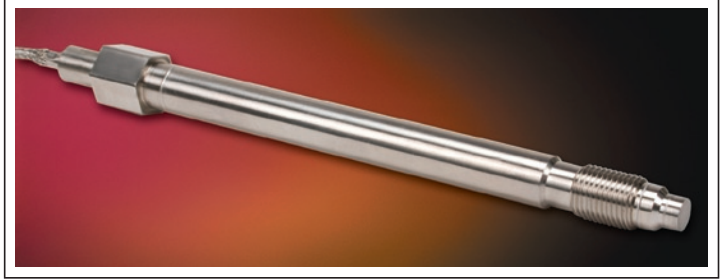


**SUPER HIGH TEMPERATURE
IS® PRESSURE TRANSDUCER**

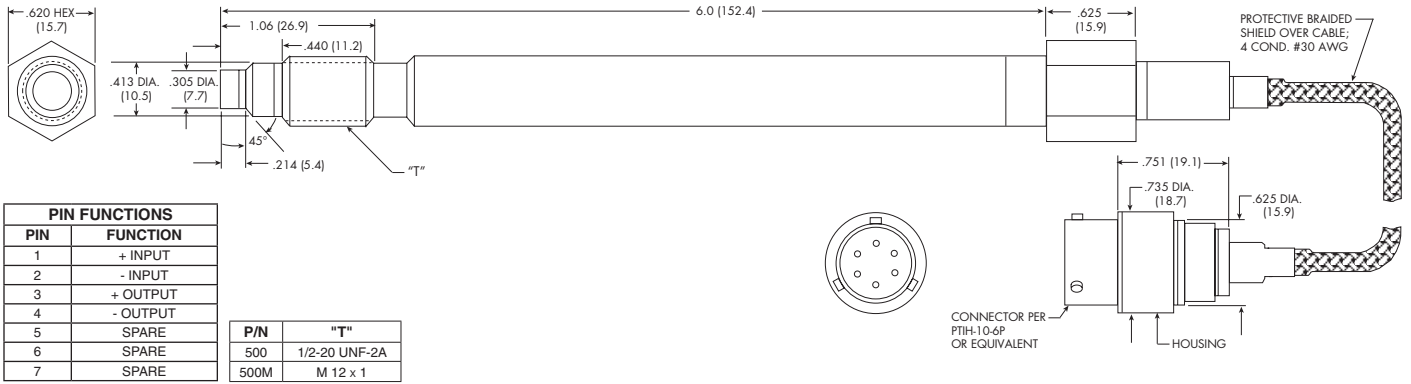
HKMER-MPS-500 (M) SERIES

- -4°F To 750°F Temperature Capability
- Suitable For Most Harsh Environments
- Designed Especially For The Plastics Industry

The HKMER-MPS Series pressure transducer is designed for use in the plastics extrusion industry. With its flush-mount metal diaphragm, it is ideal for pressure measurement of harsh media such as plastic melt.



CONSULT FACTORY FOR SPECS. ON SEALED GAGE



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 (Other Excitations Available)			
Maximum Electrical Excitation	15 VDC			
Input Impedance	1000 Ohms (Min.)			
OUTPUT	1000 Ohms (Nom.)			
Output Impedance	1000 Ohms (Nom.)			
Full Scale Output (FSO)	100 mV (Nom.)			
Residual Unbalance	± 5 mV (Typ.)			
Combined Non-Linearity, Hysteresis and Repeatability	± 0.5% FSO BFSL (Typ.)			
Resolution	Infinitesimal			
Natural Frequency (KHz) (Typ.)	235	470	710	945
Acceleration Sensitivity % FS/g	3.0x10 ⁻⁴ 2.0x10 ⁻⁴ 9.1x10 ⁻⁵ 6.1x10 ⁻⁵			
Perpendicular	1.9x10 ⁻⁵ 1.4x10 ⁻⁵ 9.0x10 ⁻⁶ 5.9x10 ⁻⁶			
Transverse				
Insulation Resistance	100 Megohm Min. @ 100 VDC			
ENVIRONMENTAL	-4°F to +752°F (-20°C to +400°C) (Front End)			
Operating Temperature Range	-4°F to +185°F (-20°C to +85°C) (Connector)			
Compensated Temperature Range	+80°F to +752°F (+25°C to +400°C) (Other Ranges Available)			
Thermal Zero Shift	± 2.0% FS/100°F (Typ.)			
Thermal Sensitivity Shift	± 2.0% FS/100°F (Typ.)			
Steady Acceleration and Linear Vibration	1,000g. Sine			
PHYSICAL	PTIH-10-6P Connector			
Electrical Connection	170 Grams (Nom.) Excluding Cable			
Weight	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon			
Pressure Sensing Principle	75 Inch-Pounds (Max.) 8.5 N-m			
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.

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