DOWNHOLE IS® PRESSURE TRANSDUCER

IPT-6-750HT

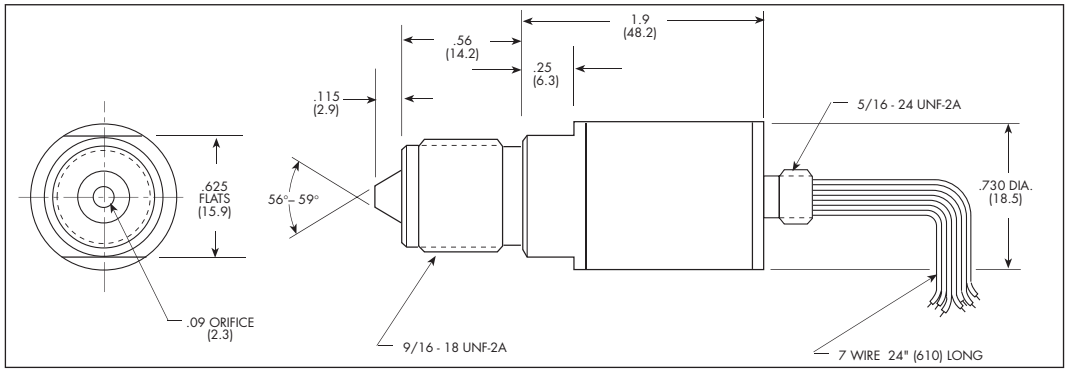
- **Supplied With Coefficients for Software Correction**
- Excellent Long Term Stability .1% Typical
- All Wetted Materials Inconel
- Built In Temperature Sensor
- High Unamplified Output
- Intrinsically Safe Applications Available (i.e. IS-IPT-6-750HT)

The IPT-6-750HT Downhole Transducer utilizes Kulite's State of the Art, Silicon on Silicon Isolated Diaphragm sensing technology, to provide excellent long term stability and high accuracy at temperatures to 350°F. All wetted materials are Inconel for corrosive media.

This transducer is supplied with a set of coefficients for use in software correction of the thermal shifts of zero and span inherent in the silicon sensor. If requested, a customized lookup table will be supplied. Use of these data yields a significant improvement over alternate technologies at a much more advantageous price.

WIRING DIAGRAM

WIRE COLOR	FUNCTION
RED	+ IN
YELLOW	+ OUT
BLUE	– OUT
GREEN	– IN
ORANGE	CASE GROUND
BLACK	RTD
WHITE	RTD



INPUT Pressure Range	70 1000	170 2500	350 5000	700 10000	1050 BAR 15000 PSI
Operational Mode	Absolute				
Over Pressure	2 Times Rated Pressure Range or 22500 PSI Whichever is Less				
Burst Pressure	3 Times Rated Pressure Range or 22500 PSI Whichever is Less				
Pressure Media	Any Liquid or Gas Compatible With Inconel				
Rated Electrical Excitation	10 VDC/AC (RMS)				
Maximum Electrical Excitation	15 VDC/AC (RMS)				
Input Impedance	2500 Ohm (Min.)				
OUTPUT Output Impedance	2500 Ohm (Nom.)				
Full Scale Output (FSO)	100 mV (Nom.)				
Residual Unbalance	± 5%				
Combined Non-Linearity, Hysteresis and Repeatability	± 0.1% FSO BFSL (Typ.) ± 0.5% FSO (Max.)				
Resolution	Infinitesimal				
Natural Frequency (KHz) (Typ.)	720	910	1120	1350	1500
Insulation Resistance	100 Megohm at 50 VDC				
ENVIRONMENTAL Operating Temperature Range	– 40° F to +350° F (– 40° C to +175° C)				
Linear Vibration	50g Peak, Sine 10 to 5000 Hz				
Acceleration	100 g				
Acceleration Sensitivity	Not Greater Than .00003% FS/g				
Humidity	100% Relative Humidity				
Mechanical Shock	100g, 6 msec				
PHYSICAL Pressure Port	9/16-18 UNF-24 Mates With Autoclave F-250 or Sno-Tric 44F				
Electrical Connection	7 Wire 24" (610) Long (Internal RTD)			6 Wire 24" (610) Long (Internal Bridge Temp.)	
Weight	110 Grams (Max.) Excluding Cable				
Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon				
Temperature Sensor	1000 Ohm Platinum Resistance Temperature Sensor To DIN 43760				

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters.
Continuous development and refinement of our products may result in specification changes without notice. (dimensions rounded off)