



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
- Silicon on Silicon Integrated Sensor **VIS®**
- High Unamplified Output
- Intrinsically Safe Applications Available (i.e. IS-IPT-6-750HT)



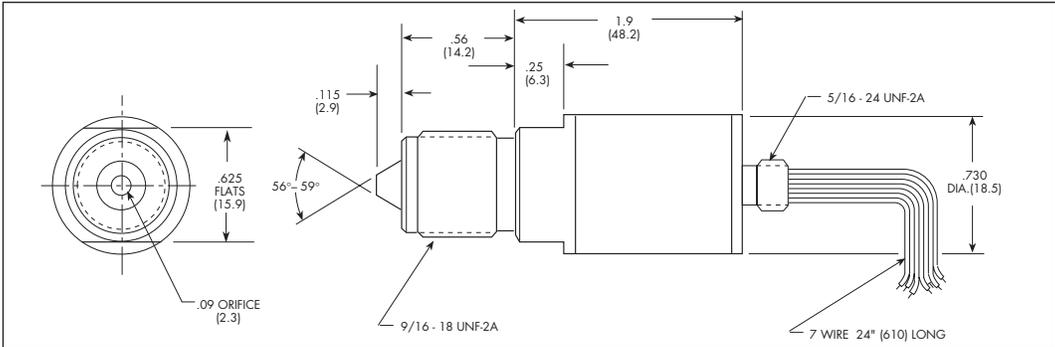
The IPT-6-750HT Downhole Transducer utilizes Kulite's State of the Art, Silicon on Silicon Isolated Diaphragm sensing technology, to provide excellent long term stability and high accuracy at temperatures to 350°F. All wetted materials are Inconel for corrosive media.

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	70	170	350	700	1050 BAR
Pressure Range	1000	2500	5000	10000	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	5 VDC/AC (RMS)				
Maximum Electrical Excitation	7.5 VDC/AC (RMS)				
RTD Excitation	1mA (2 mA Max.)				
Input Impedance	2500 Ohm (Min.)				
OUTPUT	2500 Ohms (Nom.)				
Output Impedance	100 mV (Nom.)				
Full Scale Output (FSO)	1000 Ohm Platinum RTD Per DIN EN 60751 (IEC 751) (BS 43760) Class A				
Temperature Sensor	± 5%				
Residual Unbalance	± 0.1% FSO BFSL (Typ.), ± 0.5% FSO (Max.)				
Combined Non-Linearity, Hysteresis and Repeatability	Infinitesimal				
Resolution	720	910	1120	1350	1500
Natural Frequency (KHz) (Typ.)	100 Megohm Min. @ 50 VDC				
Insulation Resistance	-40°F to +350°F (-40°C to +175°C)				
ENVIRONMENTAL	50g Peak, Sine 10 to 5000 Hz				
Operating Temperature Range	100 g				
Linear Vibration	Not Greater Than .00003% FS/g				
Acceleration	100% Relative Humidity				
Acceleration Sensitivity	100g, 6 msec.				
Humidity	9/16-18 UNF-24 Mates With Autoclave F-250 or Sno-Tric 44F				
Mechanical Shock	7 Wire 24" (610) Long (Internal RTD)	6 Wire 24" (610) Long (Internal Bridge Temp.)			
PHYSICAL	110 Grams (Max.) Excluding Cable				
Pressure Port	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon				
Electrical Connection					
Weight					
Sensing Principle					

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 - all dimensions nominal. (D)