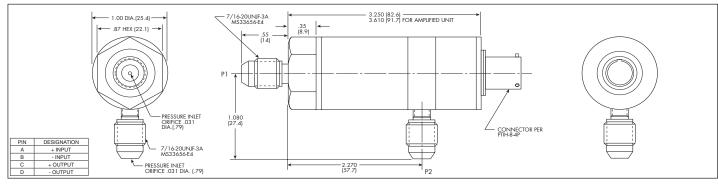
DIFFERENTIAL IS® PRESSURE TRANSDUCERS BMD-1100 SERIES BMDE-1100 SERIES (AMPLIFIED)

- High Natural Output
- Unprecedented Stability And Reliability Ruggedized Internal Construction
- Utmost in Safety Secondary Containment Of Pressure Media
- Leakproof, All Welded Construction
- Fully Qualified
 Passed Extensive
 Environmental Tests
- Intrinsically Safe Applications Available (i.e. IS-BMD-1100 or IS-BMDE-1100)



The Kulite BMD/BMDE-1100 Series pressure transducers are designed for the measurement of pressure drop across air and oil filters, engine torque and similar applications. Available either unamplified (100mV output) or amplified (5 volt output), these units are all stainless steel construction with weld sealing offering maximum accuracy and performance for industrial and aircraft applications.



INPUT	BMD-1100		BMDE-1100		
Pressure Range	1.7 25	3.5 50	7 100	17 BAR 250 PSI	
Operational Mode	Differential				
Over Pressure	2 Times Rated Pressure Main Port (P1) 2 Times Rated Pressure Reference Port (P2)				
Burst Pressure	3 Times Rated Pressure (P1 and P2)				
Pressure Media	(P1, P2) Any Liquid or Gas Compatible With 17-4 PH or 316 SS				
Rated Electrical Excitation	10 VDC/A	10 VDC/AC (RMS) 28 VDC ± 4 VDC		C ± 4 VDC	
Maximum Electrical Excitation	15 \	15 VDC N.A.		N.A.	
Input Impedance	1000 Oh	1000 Ohm (Min.)		N.A.	
OUTPUT Output Impedance	1000 Ohi	m (Nom.)	200 Ohm (4 Wire) (Max.)	50 Ohm (3 Wire) (Max.)	
Full Scale Output (FSO)	100 mV	(Nom.)	5 VDC ± 3%		
Bandwidth (-3dB)	DC to 5 KHz				
Residual Unbalance	± 5 mV	' (Typ.)	0 ± 100 mV (4 Wire)	200 mV ± 100 mV (3 Wire)	
Combined Non-Linearity, Hysteresis and Repeatability	± 0.1% FSO BFSL (Typ.), ± 0.5% FSO (Max.)				
Resolution	Infinitesimal				
Natural Frequency (KHz)	120	210	285	425	
Insulation Resistance	100 Megohm Min. @ 50 VDC				
ENVIRONMENTAL Operating Temperature Range	-65°F to +250°F (-55°C to +120°C)				
Compensated Temperature Range	0°F to +180°F (-18°C to +80°C) Other Ranges Quoted on Request				
Thermal Zero Shift	± 1% FS/100°F (Typ.)				
Thermal Sensitivity Shift	± 1% /100°F (Typ.)				
Linear Vibration	50g Peak, Sine 10 to 2000 Hz				
Altitude	-150 ft. to + 70,000 ft. Will Not Damage Sensor				
Humidity	100% Relative Humidity				
Mechanical Shock	100g half Sine Wave 11 msec. Duration				
PHYSICAL Pressure Port	MS33656-E4 7/16-20 UNJF-3A				
Electrical Connection	PTIH-8-4P Connector or Equivalent				
Weight	200 Grams Approx. 270 Grams Approx.				
Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon				
Mounting Torque	100 Inch-Pounds				