## **@kulite** H PERFORMANCE, 5 VDC OUTPUT PRESSURE TRANSDUCERS **BM-1100 SERIES BME-1100 SERIES (AMPLIFIED)**

- High Unamplified Output
- Rugged All Welded Construction •
- High Overload Capabilities •
- **Excellent Long Term Stability**
- High Isolation
  Intrinsically Safe Applications  $\langle Ex \rangle_{ce}$ Available (i.e. IS-BM-1100) 115

5 VDC Output

- Rugged All Welded Construction
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The ingenious application of modern solid state technology to transducer sensing makes the BM-1100 Series the most advanced pressure transducer available. Designed to measure liquid or gas pressure, the transducer is of all-welded stainless steel construction, with integral pressure port and diaphragm. The BM-1100 provides an extremely rugged, accurate and inexpensive means for pressure-to-voltage conversion. The inherently high unamplified output, and the ability to withstand high voltages between leads and case make the BM-1100 Series Transducers ideally suited for a large number of applications. Similar in design to the unamplified BM-1100 Series, the BME-1100 is a 5 volt unit containing a hybrid microelectronic amplifier and regulator within the all welded case.



		BM-1100				BME-1100			
INPUT	Pressure Range	1.7 25	3.5 50	7 100	17 250	35 500	70 1000	170 2500	350 BAR 5000 PSI
	Operational Mode	Absolute, Sealed Gage, Vented Gage							
	Over Pressure	2 Times Rated Pressure Range							
	Burst Pressure	5 Times Rated Pressure Range to Max. of 20000 PSI (1400 BAR)							
	Pressure Media	Any Liquid or Gas Compatible With 17-4 PH or 316 SS							
	Rated Electrical Excitation	10 VDC/AC (RMS)				28 VDC ± 4 VDC			
	Maximum Electrical Excitation	15 VDC/AC (RMS)			N.A.				
	Input Impedance	1000 Ohm (Min.)			N.A.				
OUTPUT	Output Impedance	1000 Ohm (Nom.)			200 Ohm (4	4 Wire) (Max.)	50 Ohm (3	Wire) (Max.)	
	Full Scale Output (FSO)	100 mV (Nom.) 5V ± 3%							
	Bandwidth (-3dB)	DC to 5 KHz							
	Residual Unbalance	± 2% FSO			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) (Typ.)	120	210	285	425	550	720	910	1120
	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% FS/100°F (Typ.)							
	Linear Vibration	50g Peak, Sine 10 to 2000 Hz							
	Humidity	100% Relative Humidity							
	Mechanical Shock	100g half Sine Wave 11 msec. Duration							
PHYSICAL	Pressure Port	A. 33656/E4 7/16-20 UNJF-3A B. 1/4"-18 NPT Male C. Other Ports Available							
	Electrical Connection	PTIH-8-4P Connector or Equivalent							
	Weight		110 Grams Approx. 120 Grams Approx.						
	Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon							
	Mounting Torque	100 Inch-Pounds							



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