

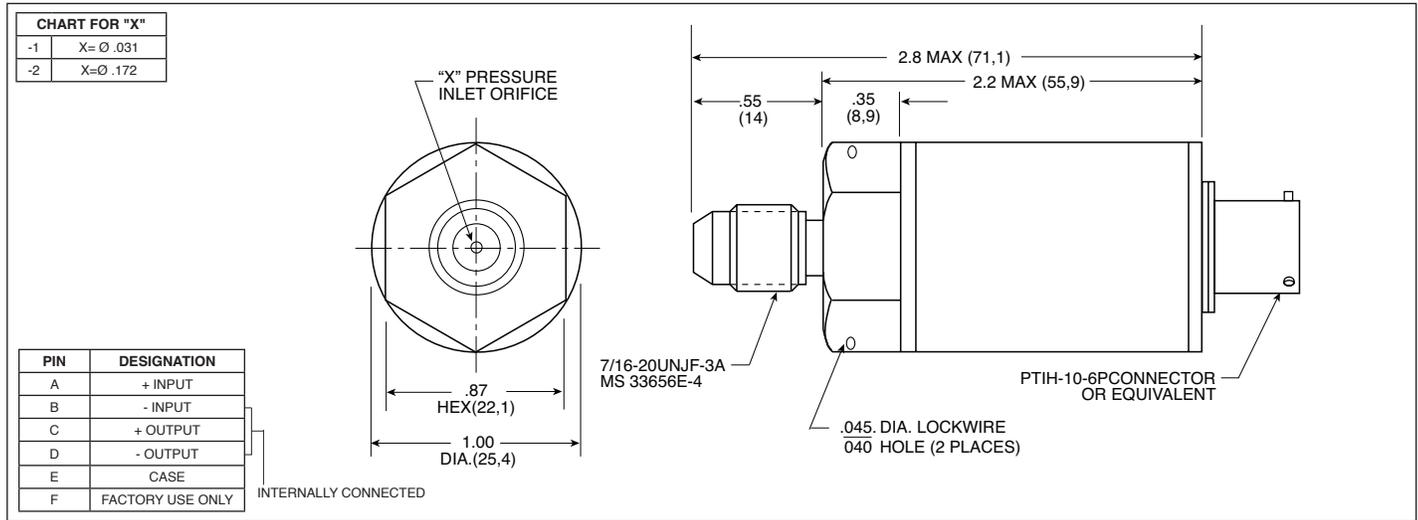


**VOLTAGE OUTPUT DIGITALLY CORRECTED  
PRESSURE TRANSDUCER  
BME-76-1100 SERIES**

- Robust Construction
- High Accuracy
- Digitally Corrected
- Silicon on Silicon Integrated Sensor **VIS®**
- Intrinsically Safe Applications Available (i.e. IS-BME-76-1100)



The BME-76-1100 digitally corrected transducer offers high accuracy with a total error band of  $\pm 0.25\%$  FSO, inclusive of all errors over a wide temperature range of  $-40^{\circ}\text{F}$  to  $+250^{\circ}\text{F}$ . The ingenious application of modern solid state technology to transducer sensing makes the BME-76-1100 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.



INPUT	Pressure Range	1.7 25	3.5 50	7 100	17 250	35 500	70 1000	140 2000	350 BAR 5000 PSI	
	Operational Mode	Absolute, Sealed Gage								
	Over Pressure	2 Times Rated Pressure								
	Burst Pressure	5 Times Rated Pressure to a Maximum of 15,000 PSI (1034 BAR)								
	Pressure Media	Any Media Compatible With 316 SS and 15-5 PH Stainless Steel								
	Rated Electrical Excitation	8 - 32 VDC								
	Maximum Electrical Current	25 mA (Max.)								
OUTPUT	Output Impedance	750 Ohms (Max.)								
	Full Scale Output (Net)	4.0 VDC $\pm$ .025 VDC								
	Total Error Band (Excluding End Points)	$\pm$ 0.25% FSO (Max.) (Combined Non-Linearity, Hysteresis, Repeatability and All Thermal Effects Included)								
	Bandwidth (-3dB)	DC to 10 KHz								
	Residual Unbalance	0.5 VDC $\pm$ .025 VDC								
	Resolution	Infinitesimal								
ENVIRONMENTAL	Insulation Resistance	100 Megohm Min. @ 50 VDC								
	Operating Temperature Range	$-40^{\circ}\text{F}$ to $+265^{\circ}\text{F}$ ( $-40^{\circ}\text{C}$ to $+130^{\circ}\text{C}$ )								
	Compensated Temperature Range	$-40^{\circ}\text{F}$ to $+250^{\circ}\text{F}$ ( $-40^{\circ}\text{C}$ to $+120^{\circ}\text{C}$ )								
	Linear Vibration	20g Peak, Sine 10 to 2000 Hz								
	Humidity	100% Relative Humidity								
PHYSICAL	Mechanical Shock	20g half Sine Wave 11 msec. Duration								
	Electrical Connection	PTIH-10-6P Connector or Equivalent								
	Weight	110 Grams								
	Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon								
Mounting Torque	100 Inch-Pounds (Max.)									

Note: Custom pressure ranges, accuracies and mechanical configurations available. Dimensions are in inches. Dimensions in parenthesis are in millimeters. All dimensions nominal. (M) Continuous development and refinement of our products may result in specification changes without notice. Copyright © 2014 Kulite Semiconductor Products, Inc. All Rights Reserved.