



VOLTAGE OUTPUT MICROPROCESSOR CORRECTED IS[®] PRESSURE TRANSDUCER BME-76-1100 SERIES

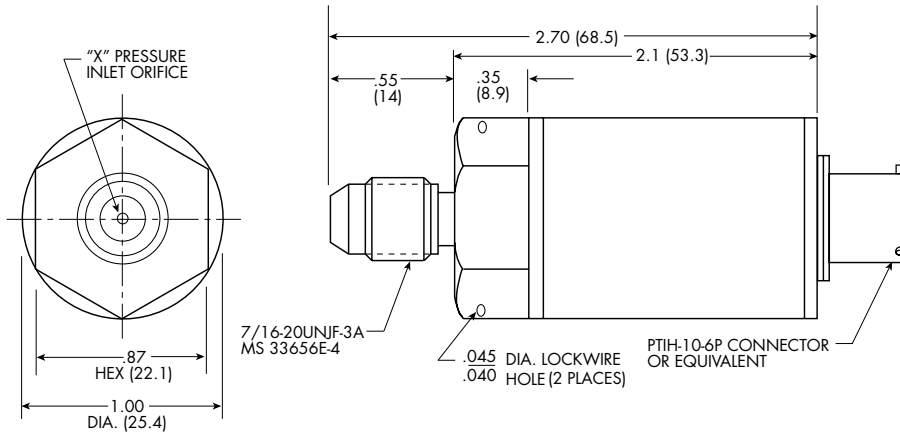
- Robust Construction
- High Accuracy
- Microprocessor Corrected
- Silicon on Silicon Integrated Sensor **VIS[®]**

The BME-76-1100 microprocessor 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°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.



CHART FOR "X"

-1	X= Ø .031
-2	X=Ø .172



PIN	DESIGNATION
A	+ INPUT
B	- INPUT
C	+ OUTPUT
D	- OUTPUT
E	CASE
F	FACTORY USE ONLY

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 to a Maximum of 5000 PSI (350 BAR)							
Burst Pressure	5 Times Rated Pressure to a Maximum of 5000 PSI (350 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 (FSO) (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							
Acceleration Sensitivity % FS/g Perpendicular Transverse	1.9x10 ⁻³ 5.0x10 ⁻⁵	1.0x10 ⁻³ 3.1x10 ⁻⁵	5.2x10 ⁻⁴ 2.0x10 ⁻⁵	2.2x10 ⁻⁴ 1.0x10 ⁻⁵	1.1x10 ⁻⁴ 7.0x10 ⁻⁶	6.2x10 ⁻⁵ 4.3x10 ⁻⁶	2.6x10 ⁻⁵ 2.3x10 ⁻⁶	1.5x10 ⁻⁵ 1.5x10 ⁻⁶
Insulation Resistance	100 Megohm Min. @ 50 VDC							
ENVIRONMENTAL Operating Temperature Range	-40°F to $+265^{\circ}\text{F}$ (-40°C to $+130^{\circ}\text{C}$)							
Compensated Temperature Range	-40°F to $+250^{\circ}\text{F}$ (-40°C to $+120^{\circ}\text{C}$)							
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 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. Continuous development and refinement of our products may result in specification changes without notice - all dimensions nominal. (E)