

VOLTAGE OUTPUT DIGITALLY CORRECTED DIFFERENTIAL

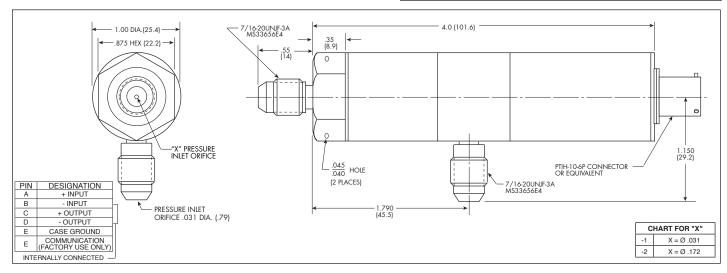
PRESSURE TRANSDUCER

BMDE-70-1000 SERIES

- Robust Construction
- · Digitally Corrected
- High Accuracy
- · Silicon on Silicon Integrated Sensor VIS®

The BMDE-70-1000 digitally corrected transducer offers high accuracy inclusive of all errors over a wide temperature range of -40°F to +250°F. The ingenious application of modern solid state technology to transducer sensing makes the BMDE-70-1000 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	0.35 5	1.0 15	1.7 25	3.5 50		7 100		17 250		5 BAR 00 PSI
	Operational Mode	Differential									
	Over Pressure	2 Times Rated Pressure to a Maximum of 5000 PSI (350 BAR)									
	Burst Pressure	3 Times Rated Pressure to a Maximum of 5000 PSI (350 BAR)									
	Line Pressure	4 Times Rated Pressure, 2000 PSI Max. (138 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.)									
ООТРОТ	Output Impedance	750 Ohms (Max.)									
	Full Scale Output (FSO) (Net)	± 2.0 VDC ± .025 VDC									
	Total Error Band (Excluding End Points)	± 0.5% FSO (Max.) ± 0.25% FSO (Max.) (Combined Non-Linearity, Hysteresis, Repeatability and All Thermal Effects Included)									
	Bandwidth (-3dB)	DC to 10 KHz									
	Residual Unbalance	2.5 VDC ± .025 VDC									
	Resolution	Infinitesimal									
	Acceleration Sensitivity % FS/g Perpendicular	1.5x10 ⁻³	7.0x10 ⁻⁴	3.0x10 ⁻⁴	1.5x10 ⁻⁴	1.0x10 ⁻⁴	5.0x10 ⁻⁵	3.0x10 ⁻⁵	2.0x10 ⁻⁵	1.5x10 ⁻⁵	1.0x10 ⁻⁵
	Insulation Resistance	100 Megohm Min. @ 50 VDC									
ENVIRONMENTAL	Operating Temperature Range	-40°F to +265°F (-40°C to +130°C)									
	Compensated Temperature Range	-40°F to +250°F (-40°C to +120°C)									
	Linear Vibration	50g Peak, Sine 10 to 2000 Hz									
	Humidity	100% Relative Humidity									
	Mechanical Shock	100g half Sine Wave 11 msec. Duration									
PHYSICAL	Electrical Connection	PTIH-10-6P Connector or Equivalent									
	Weight	270 Grams Approx.									
	Pressure Sensing Principle	Fully Active Four Arm Wheatstone Bridge Dielectrically Isolated Silicon on Silicon									
_	Mounting Torque	100 Inch-Pounds (Max.)									