



Model Number 106B52		ICP® PRESSURE SENSOR		Revision: B ECN #: 33741	
Performance		ENGLISH	SI	OPTIONAL VERSIONS	
Measurement Range(for ±5V output)	1 psi	6.89 kPa		Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.	
Sensitivity(± 15 %)	5000 mV/psi	725 mV/kPa		E - Emralon coating	
Maximum Pressure(Dynamic)	10 psi	68.9 kPa		Coating	Emralon
Maximum Pressure(static)	50 psi	345 kPa		Electrical Isolation	10 ⁸ ohm
Resolution	0.02 mpsi	.00013 kPa		J - Ground Isolated	[3]
Resonant Frequency	≥ 40 kHz	≥ 40 kHz		N - Negative Output Polarity	
Rise Time(Reflected)	≤ 12.5 μ sec	≤ 12.5 μ sec	[1]	W - Water Resistant Cable	[4]
Low Frequency Response(-5 %)	2.5 Hz	2.5 Hz		Supplied Accessory : Model 060A11 Delrin clamp nut 3/4-16-2A thd 3/4" hex (1)	
Non-Linearity	≤ 1 % FS	≤ 1 % FS		WM - Water Resistant Cable	[4]
Environmental				Supplied Accessory : Model 060A13 Metric Delrin clamp nut M20 x 1.5-6g thd 20 mm hex (1)	
Acceleration Sensitivity	≤ 0.002 psi/g	≤ 0.0014 kPa/(m/s ²)		NOTES:	
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C		[1] Zero-based, least-squares, straight line method.	
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C		[2] See PCB Declaration of Conformance PS023 for details.	
Maximum Shock	1000 g pk	9807 m/s ² pk		[3] Used with optional mounting adaptor.	
Electrical				[4] Clamp nut installed prior to cable attachment	
Output Polarity(Positive Pressure)	Positive	Positive		SUPPLIED ACCESSORIES:	
Discharge Time Constant(at room temp)	≥ 0.2 sec	≥ 0.2 sec		Model 060A11 Delrin clamp nut 3/4-16-2A thd 3/4" hex (1)	
Excitation Voltage	24 to 27 VDC	24 to 27 VDC		Model 060A13 Metric Delrin clamp nut M20 x 1.5-6g thd 20 mm hex (1)	
Constant Current Excitation	2 to 20 mA	2 to 20 mA		Model 065A36 Seal, .687" OD x .625" ID x .060", Derlin (3)	
Output Impedance	<100 ohm	<100 ohm			
Output Bias Voltage	7 to 14 VDC	7 to 14 VDC			
Physical					
Sensing Geometry	Compression	Compression			
Sensing Element	Quartz	Quartz			
Housing Material	17-4 Stainless Steel	17-4 Stainless Steel			
Diaphragm	316L Stainless Steel	316L Stainless Steel			
Sealing	Welded Hermetic	Welded Hermetic			
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack			
Weight	1.2 oz	35 gm			
					
[2]					
All specifications are at room temperature unless otherwise specified. In the interest of constant product improvement, we reserve the right to change specifications without notice.					
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Entered: <i>OMW</i>		Engineer: <i>NIL</i>		Sales: <i>KWJ</i>	
Date: <i>8/24/10</i>		Date: <i>8/24/10</i>		Date: <i>8/24/10</i>	
				Approved: <i>EB</i>	
				Spec Number: 22933	
				Phone: 716-684-0001 Fax: 716-686-9129 E-Mail: pressure@pcb.com	
3425 Walden Avenue, Depew, NY 14043					



Represented in India by

Structural Solutions Pvt Ltd. | Phone: 040 2322 2380 | Email: sales@stsols.com

#4th Floor, Sudheer Tapani Towers, Himayath Nagar, Hyderabad - 500 029