Model Number 106B52	ICP® PRESSURE SENSOR	Revision: D ECN #: 55157

Performance	ENGLISH	SI	
Measurement Range(for ±5V output)	1 psi	6.89 kPa	
Useful Overrange(±10V)	2 psi	13.8 kPa	
Sensitivity(± 15 %)	5,000 mV/psi	725 mV/kPa	
Maximum Pressure(step)	10 psi	68.9 kPa	
Maximum Pressure	50 psi	345 kPa	
Resolution	0.02 mpsi	.00013 kPa	[1]
Resonant Frequency	≥ 40 kHz	≥ 40 kHz	
Rise Time(Reflected)	≤ 12.5 µ sec	≤ 12.5 µ sec	
Low Frequency Response(- 5 %)	2.5 Hz	2.5 Hz	
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[2]
Environmental			
Acceleration Sensitivity	0.002 psi/g	0.0014 kPa/(m/s²)	[1]
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C	
Maximum Vibration	500 g pk	4,900 m/s² pk	
Maximum Shock	1,000 g pk	9,800 m/s² pk	
Electrical			
Output Polarity(Positive Pressure)	Positive	Positive	
Discharge Time Constant(at room temp)	≥ 0.2 sec	≥ 0.2 sec	
Excitation Voltage	24 to 27 VDC	24 to 27 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
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	

CE

UK CA [3]

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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OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

E - Emralon coating

Coating	Emralon	Emralon	
Electrical Isolation	10^8 Ohm	10^8 Ohm	[4]

J - Ground Isolated

Electrical Isolation(50 V)	10^8 Ohm	10^8 Ohm	

N - Negative Output Polarity [5]

W - Water Resistant Cable
Supplied Accessory: Model 060A11 Acetal clamp nut 3/4-16-2A thd 3/4" hex (1) [5]

WM - Water Resistant Cable
Supplied Accessory: Model 060A13 Metric Acetal clamp nut M20 x 1.5-6g thd 20 mm hex (1)

NOTES:

[1]Typical.
[2]Zero-based, least-squares, straight line method.
[3]See PCB Declaration of Conformance PS023 for details.
[4]Used with optional mounting adaptor.
[5]Clamp nut installed prior to cable attachment

SUPPLIED ACCESSORIES:

Model 060A11 Acetal clamp nut 3/4-16-2A thd 3/4" hex (1)
Model 060A13 Metric Acetal clamp nut M20 x 1.5-6g thd 20 mm hex (1)
Model 065A36 Seal, .687" OD x .625" ID x .060", Derlin (3)
Model PCS-1 Calibration of dynamic pressure sensors up to 100% range
Model PCS-24 Sensor sensitivity calibration with Pistonphone

Entered: ND	Engineer: RPF	Sales: KWW	Approved: RPF	Spec Number:
Date: 08/29/2024	Date: 08/29/2024	Date: 08/29/2024	Date: 08/29/2024	22933

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