Model Number	ICP® PRESSURE SENSOR	Revision: C
113B36		ECN #: 40791

Performance	**ENGLISH**	**SI**	
Measurement Range(for ±5V output)	500 psi	3448 kPa	
Useful Overrange(for ± 10V output)	1 kpsi	6895 kPa	[1]
Sensitivity(± 0.5 mV/psi)	10.0 mV/psi	1.45 mV/kPa	
Maximum Pressure	10 kpsi	68,950 kPa	
Resolution	2 mpsi	0.014 kPa	
Resonant Frequency	≥ 400 kHz	≥ 400 kHz	
Rise Time(Reflected)	≤ 1.5 µ sec	≤ 1.5 µ sec	
Low Frequency Response	5.0 Hz	5.0 Hz	
Non-Linearity	≤ 1.0 % FS	≤ 1.0 % FS	[2]
Environmental			
Acceleration Sensitivity	≤ 0.002 psi/g	≤ 0.0014 kPa/(m/s²)	
Temperature Range(Operating)	-100 to +275 °F	-73 to +135 °C	
Temperature Coefficient of Sensitivity	≤ 0.1 %/°F	≤ 0.18 %/°C	
Maximum Flash Temperature	3000 °F	1650 °C	
Maximum Vibration	2000 g pk	19,614 m/s² pk	
Maximum Shock	20,000 g pk	196,140 m/s² pk	
Electrical			
Output Polarity(Positive Pressure)	Positive	Positive	
Discharge Time Constant(at room temp)	0.1 to 1.0 sec	0.1 to 1.0 sec	
Excitation Voltage	20 to 30 VDC	20 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	<100 Ohm	<100 Ohm	
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC	
Physical			
Sensing Geometry	Compression	Compression	
Sensing Element	Quartz	Quartz	
Housing Material	Invar	Invar	
Diaphragm	Invar	Invar	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Weight	0.2 oz	5.0 gm	

CE[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 [4]

Coating	Emralon	Emralon
Electrical Isolation	10^8 Ohm	10^8 Ohm

Supplied Accessory : Model 065A08 Isolation ring 0.250"OD x 0.218" ID x 0.027" thk anodized aluminum (3)
Supplied Accessory : Model 065A22 Isolation Seal, .250" OD x .218" ID x .015", Torlon or Vespel (3)

H - Hermetic Seal

J - Ground Isolated [4][5]

N - Negative Output Polarity

W - Water Resistant Cable [6][4]
Supplied Accessory : Model 060A03 Clamp nut, 5/16-24-2A thd, 1/4" hex, stainless steel (1)

WM - Water Resistant Cable [6][4]
Supplied Accessory : Model 060A05 Clamp nut M7 x 0.75-6g thd (1)

NOTES:

[1] For +10 volt output, minimum 24 VDC supply voltage required. Negative 10 volt output may be limited by output bias.
[2] Zero-based, least-squares, straight line method.
[3] See PCB Declaration of Conformance PS023 for details.
[4] For sensor mounted in thread adaptor, see adaptor installation drawing for supplied accessories.
[5] Used with optional mounting adaptor.
[6] Clamp nut installed prior to cable attachment

SUPPLIED ACCESSORIES:

Model 060A03 Clamp nut, 5/16-24-2A thd, 1/4" hex, stainless steel (1)
Model 060A05 Clamp nut M7 x 0.75-6g thd (1)
Model 065A02 Seal ring, sensor flush mount, 0.248" OD x 0.219" ID x 0.015" thk, brass (3)
Model 065A05 Seal sleeve sensor recess mount 0.248" OD x 0.221" ID x 0.240" thk 17-4 (1)

Entered: AP	Engineer: MJK	Sales: KWW	Approved: BAM	Spec Number:
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PCB PIEZOTRONICS
3425 Walden Avenue, Depew, NY 14043
Phone: 716-684-0001
Fax: 716-684-0987
E-Mail: info@pcb.com