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Find the *PCB Piezotronics 113B24* at our website: *Click HERE*

Model Number	ICP® PRESSURE SENSOR	Revision: C
113B24		ECN #: 40791

Performance	**ENGLISH**	**SI**	
Measurement Range(for ±5V output)	1 kpsi	6895 kPa	
Useful Overrange(for ± 10V output)	2 kpsi	13,790 kPa	[2]
Sensitivity(± 10 %)	5.0 mV/psi	0.725 mV/kPa	
Maximum Pressure	10 kpsi	68,950 kPa	
Resolution	5 mpsi	0.035 kPa	[1]
Resonant Frequency	≥ 500 kHz	≥ 500 kHz	
Rise Time	≤ 1.0 µ sec	≤ 1.0 µ sec	
Low Frequency Response(-5 %)	0.005 Hz	0.005 Hz	
Non-Linearity	≤ 1.0 % FS	≤ 1.0 % FS	[3]
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	≤ 0.03 %/°F	≤ 0.054 %/°C	[1]
Maximum Flash Temperature	3000 °F	1649 °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)	≥ 100 sec	≥ 100 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	17-4 Stainless Steel	17-4 Stainless Steel	
Diaphragm	Invar	Invar	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	
Weight(with clamp nut)	0.21 oz	6.0 gm	

CE[4]

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 [5][6]

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 [6]

Sealing	Welded Hermetic	Welded Hermetic

J - Ground Isolated [6][7]

N - Negative Output Polarity [6]

S - Stainless Steel Diaphragm [6]

Diaphragm	316L Stainless Steel	316L Stainless Steel

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

WM - Water Resistant Cable [5][6]
Supplied Accessory : Model 060A05 Clamp nut M7 x 0.75-6g thd (1)

NOTES:

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

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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