

Model Number
112B05

CHARGE OUTPUT PRESSURE SENSOR

Revision: C
ECN #: 54975

Performance

	ENGLISH	SI	
Sensitivity(± 15 %)	1.1 pC/psi	.16 pC/kPa	
Measurement Range	5,000 psi	34,475 kPa	
Maximum Pressure(Total)	10,000 psi	68,950 kPa	
Resonant Frequency	≥ 200 kHz	≥ 200 kHz	
Rise Time(Reflected)	≤ 2.0 μ sec	≤ 2.0 μ sec	
Non-Linearity	≤ 1.0 % FS	≤ 1.0 % FS	[1]

Environmental

	ENGLISH	SI	
Acceleration Sensitivity	0.003 psi/g	0.0021 kPa/(m/s ²)	[2]
Temperature Range(Operating)	-400 to +500 °F	-240 to +260 °C	
Temperature Response	See Graph	See Graph	[2]
Maximum Flash Temperature	3,000 °F	1,649 °C	
Maximum Vibration	5,000 g pk	49,000 m/s ² pk	
Maximum Shock	10,000 g pk	98,000 m/s ² pk	

Electrical

	ENGLISH	SI	
Output Polarity(Positive Pressure)	Negative	Negative	
Capacitance	24 pF	24 pF	[2]
Insulation Resistance(at room temp)	≥ 10 ¹² Ohm	≥ 10 ¹² Ohm	
Insulation Resistance(500°F/260°C)	≥ 10 ⁹ Ohm	≥ 10 ⁹ Ohm	

Physical

	ENGLISH	SI
Sensing Element	Quartz	Quartz
Sensing Geometry	Compression	Compression
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	0.21 oz	6.0 gm

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.

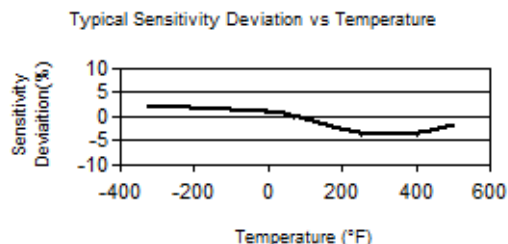
- P** - Positive Output Polarity
Output Polarity(Positive Pressure) Positive Positive [4]
- W** - Water Resistant Cable
Supplied Accessory: Model 060A03 Clamp nut, 5/16-24-2A thd, 1/4" hex, stainless steel (1) [4]
- WM** - Water Resistant Cable
Supplied Accessory: Model 060A05 Clamp nut M7 x 0.75-6g thd (1)

NOTES:

- [1]Zero-based, least-squares, straight line method.
- [2]Typical.
- [3]See PCB Declaration of Conformance PS158 for details.
- [4]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 17-7 (1)
- Model 065A29 Seal, .250" OD x .218" ID x .015", 316L (2)
- Model PCS-10 Single point sensitivity coefficient at sensor maximum operating temperature
- Model PCS-1BA Sensitivity calibration at 100%, 10% and 2% of sensor range



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: ND	Engineer: AJA	Sales: RWM	Approved: RPF	Spec Number:
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