

Model Number  
116B03

# CHARGE OUTPUT PRESSURE SENSOR

Revision: D  
ECN #: 29520

	ENGLISH	SI	
<b>Performance</b>			
Sensitivity(± 15 %)	6 pC/psi	0.870 pC/kPa	
Measurement Range	100 psi	690 kPa	
Maximum Pressure(static)	3 kpsi	20,685 kPa	
Resolution	0.3 mpsi	.0021 kPa	[3]
Resonant Frequency	≥ 55 kHz	≥ 55 kHz	
Rise Time(Reflected)	≤ 9 μ sec	≤ 9 μ sec	
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[4]
<b>Environmental</b>			
Acceleration Sensitivity	≤ 0.002 psi/g	≤ 0.0014 kPa/(m/s <sup>2</sup> )	
Temperature Range(Operating)	-400 to 750 °F	-240 to 399 °C	[2]
Temperature Coefficient of Sensitivity	≤ 0.04 %/°F	≤ 0.072 %/°C	
Maximum Flash Temperature	3000 °F	1649 °C	
Maximum Shock	2000 g pk	19,620 m/s <sup>2</sup> pk	
<b>Electrical</b>			
Output Polarity(Positive Pressure)	Negative	Negative	[1]
Capacitance	30 pF	30 pF	
Insulation Resistance(at 600°F[315°C])	>10 <sup>9</sup> ohm	>10 <sup>9</sup> ohm	
Insulation Resistance(at 750°F[399°C])	>10 <sup>8</sup> ohm	>10 <sup>8</sup> ohm	
Insulation Resistance(at room temp)	>10 <sup>11</sup> ohm	>10 <sup>11</sup> ohm	
<b>Physical</b>			
Sensing Element	Quartz	Quartz	
Housing Material	316L Stainless Steel	316L 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	.717 oz	20.3 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

**NOTES:**  
[1] Typical.  
[2] When used with blocking capacitor and hardline cable.  
[3] Resolution dependent on range setting and cable length used in charge system.  
[4] Zero-based, least-squares, straight line method.

**SUPPLIED ACCESSORIES:**  
Model 060A12 Clamp nut, 9/16-18-2A thd, 9/16" hex (1)  
Model 060A14 Metric clamp nut, M14 x 1.25-6g thd, 14 mm hex, stainless steel (1)  
Model 065A37 Seal ring 0.497 OD x 0.437 ID x 0.025 thk Brass (3)

Entered: BLS	Engineer: NJL	Sales: RYM	Approved: RF	Spec Number:
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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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