



Model Number 208C03	ICP® FORCE SENSOR			Revision H ECN #: 24177										
Performance	ENGLISH	SI		Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.) N - Negative Output Polarity Output Polarity (Compression) Negative Negative W - Water Resistant Cable Electrical Connector Sealed Cable Sealed Cable Electrical Connection Position Side Side										
Sensitivity (±15 %)	10 mV/lb	2248 mV/kN												
Measurement Range (Compression)	500 lb	2.224 kN												
Measurement Range (Tension)	500 lb	2.224 kN												
Maximum Static Force (Compression)	3000 lb	13.5 kN												
Maximum Static Force (Tension)	500 lb	2.224 kN												
Broadband Resolution (1 to 10000 Hz)	0.005 lb-rms	0.02 N-rms	[1]											
Low Frequency Response (-5 %)	0.0003 Hz	0.0003 Hz	[2]											
Upper Frequency Limit	36 kHz	36 kHz	[3]											
Non-Linearity	≤1 % FS	≤1 % FS	[4]											
Environmental				Notes [1] Typical. [2] Calculated from discharge time constant. [3] Estimated using rigid body dynamics calculations. [4] Zero-based, least-squares, straight line method. [5] See PCB Declaration of Conformance PS023 for details.										
Temperature Range	-65 to +250 °F	-54 to +121 °C												
Temperature Coefficient of Sensitivity	≤0.05 %/°F	≤0.09 %/°C												
Electrical				Supplied Accessories										
Discharge Time Constant (at room temp)	≥2000 sec	≥2000 sec		080A81 Thread Locker (1)										
Excitation Voltage	20 to 30 VDC	20 to 30 VDC		081B05 Mounting Stud (10-32 to 10-32) (2)										
Constant Current Excitation	2 to 20 mA	2 to 20 mA		084A03 Impact Cap (1)										
Output Impedance	≤100 Ohm	≤100 Ohm		M081A62 Mounting stud, 10-32 to M6 x 1, BeCu with shoulder (2)										
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC												
Spectral Noise (1 Hz)	0.000211 lb/√Hz	0.000942 N/√Hz	[1]											
Spectral Noise (10 Hz)	0.000109 lb/√Hz	0.000488 N/√Hz	[1]											
Spectral Noise (100 Hz)	0.0000387 lb/√Hz	0.000173 N/√Hz	[1]											
Spectral Noise (1000 Hz)	0.0000086 lb/√Hz	0.0000385 N/√Hz	[1]											
Output Polarity (Compression)	Positive	Positive												
Physical														
Stiffness	6 lb/μin	1.05 kN/μm	[1]											
Size (Hex x Height x Sensing Surface)	0.625 in x 0.625 in x 0.500 in	15.88 mm x 15.88 mm x 12.7 mm												
Weight	0.80 oz	22.7 gm												
Housing Material	Stainless Steel	Stainless Steel												
Sealing	Hermetic	Hermetic												
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack												
Electrical Connection Position	Side	Side												
Mounting Thread	10-32 Female	10-32 Female												
Mounting Torque (Recommended)	16 to 20 in-lb	181 to 226 N-cm												
 [5]														
<p><i>All specifications are at room temperature unless otherwise specified.</i></p> <p>In the interest of constant product improvement, we reserve the right to change specifications without notice.</p> <p>ICP® is a registered trademark of PCB group, Inc.</p>				<table border="1"> <tr> <td>Entered: BLB</td> <td>Engineer: MJK</td> <td>Sales: MFG</td> <td>Approved: BLB</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 05/01/2006</td> <td>Date: 05/02/2006</td> <td>Date: 05/03/2006</td> <td>Date: 05/09/2006</td> <td>8396</td> </tr> </table>	Entered: BLB	Engineer: MJK	Sales: MFG	Approved: BLB	Spec Number:	Date: 05/01/2006	Date: 05/02/2006	Date: 05/03/2006	Date: 05/09/2006	8396
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