

Model Number 208C01	ICP® FORCE SENSOR		Revision J ECN #: 24177										
Performance Sensitivity (±15 %) Measurement Range (Compression) Measurement Range (Tension) Maximum Static Force (Compression) Maximum Static Force (Tension) Broadband Resolution (1 to 10000 Hz) Low Frequency Response (-5 %) Upper Frequency Limit Non-Linearity	ENGLISH 500 mV/lb 10 lb 10 lb 60 lb 60 lb 0.0001 lb-rms 0.01 Hz 36 kHz ≤1 % FS	SI 112410 mV/kN 0.04448 kN 0.04448 kN 0.27 kN 0.27 kN 0.00045 N-rms 0.01 Hz 36 kHz ≤1 % FS	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 Notes [1] Sensor contains protected electronics which may cause long 'turn-on" times. [2] Typical. [3] Calculated from discharge time constant. [4] Estimated using rigid body dynamics calculations. [5] Zero-based, least-squares, straight line method. [6] See PCB Declaration of Conformance PS023 for details.										
Environmental Temperature Range Temperature Coefficient of Sensitivity	-65 to +250 °F ≤0.05 %/°F	-54 to +121 °C ≤0.09 %/°C											
Electrical Discharge Time Constant (at room temp) Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage Spectral Noise (1 Hz) Spectral Noise (10 Hz) Spectral Noise (100 Hz) Spectral Noise (1000 Hz) Output Polarity (Compression)	≥50 sec 18 to 30 VDC 2 to 20 mA ≤100 Ohm 8 to 12 VDC 0.0000126 lb/√Hz 0.0000042 lb/√Hz 0.0000015 lb/√Hz 0.0000005 lb/√Hz Positive	≥50 sec 18 to 30 VDC 2 to 20 mA ≤100 Ohm 8 to 12 VDC 0.0000562 N/√Hz 0.0000189 N/√Hz 0.0000066 N/√Hz 0.0000023 N/√Hz Positive	Supplied Accessories 080A81 Thread Locker (1) 081B05 Mounting Stud (10-32 to 10-32) (2) 084A03 Impact Cap (1) M081A62 Mounting stud, 10-32 to M6 x 1, BeCu with shoulder (2)										
Physical Stiffness Size (Hex x Height x Sensing Surface) Weight Housing Material Sealing Electrical Connector Electrical Connection Position Mounting Thread Mounting Torque (Recommended)	6 lb/μin 0.625 in x 0.625 in x 0.500 in 0.80 oz Stainless Steel Hermetic 10-32 Coaxial Jack Side 10-32 Female 16 to 20 in-lb	1.05 kN/μm 15.88 mm x 15.88 mm x 12.7 mm 22.7 gm Stainless Steel Hermetic 10-32 Coaxial Jack Side 10-32 Female 181 to 226 N-cm											
													
<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" data-bbox="1123 1149 2001 1226"> <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>8625</td> </tr> </table> <div data-bbox="1134 1242 1522 1323">  </div> <div data-bbox="1564 1242 1806 1421"> 3425 Walden Avenue Depew, NY 14043 UNITED STATES Phone: 800-828-8840 Fax: 716-684-0987 E-mail: info@pcb.com Web site: www.pcb.com </div>			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	8625
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	8625									