

Model Number 201B04	ICP® FORCE SENSOR		Revision: E ECN #: 35154											
Performance	ENGLISH	SI	OPTIONAL VERSIONS											
Sensitivity(± 15 %)	5 mV/lb	1124 mV/kN	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.											
Measurement Range(Compression)	1000 lb	4.448 kN												
Maximum Static Force(Compression)	6000 lb	26.69 kN												
Broadband Resolution(1 to 10,000 Hz)	0.02 lb-rms	0.08896 N-rms	N - Negative Output Polarity											
Low Frequency Response(-5 %)	0.001 Hz	0.001 Hz	Output Polarity(Compression)	Negative Negative										
Upper Frequency Limit	90 kHz	90 kHz												
Non-Linearity	≤ 1 % FS	≤ 1 % FS	W - Water Resistant Cable											
Environmental			Electrical Connector	Sealed Cable Sealed Cable										
Temperature Range	-65 to +250 °F	-54 to +121 °C	Electrical Connection Position	Side Side										
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C												
Electrical			NOTES:											
Discharge Time Constant(at room temp)	≥ 700 sec	≥ 700 sec	[1] Typical.											
Excitation Voltage	20 to 30 VDC	20 to 30 VDC	[2] Calculated from discharge time constant.											
Constant Current Excitation	2 to 20 mA	2 to 20 mA	[3] Estimated using rigid body dynamics calculations.											
Output Impedance	≤ 100 ohm	≤ 100 ohm	[4] Zero-based, least-squares, straight line method.											
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC	[5] See PCB Declaration of Conformance PS023 for details.											
Output Polarity(Compression)	Positive	Positive												
Physical			SUPPLIED ACCESSORIES:											
Preload	400 lb	1.78 kN	Model 080A82 Assembly Lubricant (1)											
Stiffness	12 lb/μin	2.1 kN/μm	Model 081A11 Mounting Stud, 10-32 x 0.730, BeCu (1)											
Size (Diameter x Height x Bolt Diameter x Sensing Surface)	0.650 in x 0.310 in x 0.25 in x 0.50 in	16.5 mm x 7.9 mm x 6 mm x 12.7 mm	Model 082B01 Anti-Friction Washer (1)											
Size (ID)(Hole Diameter)	0.251 in	6.38 mm	Model 083B01 Pilot Bushing (1)											
Size (OD)(Sensor)	0.650 in	16.51 mm	Model M081A11 Mounting Stud, M5 x 0.8 x 0.730, BeCu (1)											
Weight	0.35 oz	10 gm	Model M083B01 Pilot Bushing (1)											
Housing Material	Stainless Steel	Stainless Steel												
Sealing	Hermetic	Hermetic												
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack												
Electrical Connection Position	Side	Side												
 [5]			<table border="1"> <tr> <td>Entered: <i>cmw</i></td> <td>Engineer: <i>ngx</i></td> <td>Sales: <i>gzw</i></td> <td>Approved: <i>CR</i></td> <td>Spec Number:</td> </tr> <tr> <td>Date: <i>3/1/11</i></td> <td>Date: <i>3/1/11</i></td> <td>Date: <i>3/1/11</i></td> <td>Date: <i>3/1/11</i></td> <td>201-2040-80</td> </tr> </table>		Entered: <i>cmw</i>	Engineer: <i>ngx</i>	Sales: <i>gzw</i>	Approved: <i>CR</i>	Spec Number:	Date: <i>3/1/11</i>	Date: <i>3/1/11</i>	Date: <i>3/1/11</i>	Date: <i>3/1/11</i>	201-2040-80
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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. ICP® is a registered trademark of PCB Group, Inc.			 3425 Walden Avenue, Depew, NY 14043 Phone: 716-684-0001 Fax: 716-684-8877 E-Mail: force@pcb.com											