



Model Number	ICP® FORCE SENSOR			Revision: F										
200C20				ECN #: 30055										
Performance	ENGLISH	SI		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.										
Sensitivity(± 15 %)	0.25 mV/lb	56.2 mV/kN												
Measurement Range(Compression)	20,000 lb	88.96 kN		N - Negative Output Polarity Output Polarity(Compression) Negative Negative										
Maximum Static Force(Compression)	30,000 lb	133.44 kN												
Broadband Resolution(1 to 10,000 Hz)	0.30 lb-rms	1.3 N-rms	[2]	W - Water Resistant Cable Electrical Connector Sealed Cable Sealed Cable Electrical Connection Position Side Side										
Low Frequency Response(-5 %)	0.0003 Hz	0.0003 Hz	[3]											
Upper Frequency Limit	40 kHz	40 kHz	[4]											
Non-Linearity	≤1 % FS	≤1 % FS	[5]											
Environmental														
Temperature Range	-65 to +250 °F	-54 to +121 °C												
Temperature Coefficient of Sensitivity	≤0.08 %/°F	≤0.144 %/°C												
Electrical														
Discharge Time Constant(at room temp)	≥2000 sec	≥2000 sec		NOTES: [1] Minimum 25 VDC required for maximum output voltage. [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.										
Excitation Voltage	20 to 30 VDC	20 to 30 VDC	[1]											
Constant Current Excitation	2 to 20 mA	2 to 20 mA												
Output Impedance	≤100 ohm	≤100 ohm												
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC												
Spectral Noise(1 Hz)	0.039 lb/√Hz	0.17 N/√Hz	[2]											
Spectral Noise(10 Hz)	0.012 lb/√Hz	0.054 N/√Hz	[2]											
Spectral Noise(100 Hz)	0.0034 lb/√Hz	0.015 N/√Hz	[2]											
Spectral Noise(1 kHz)	0.00088 lb/√Hz	0.0039 N/√Hz	[2]											
Output Polarity(Compression)	Positive	Positive												
Physical														
Stiffness	63 lb/μin	11 kN/μm	[2]	SUPPLIED ACCESSORIES: Model 080A81 Thread Locker (1) Model 081A06 Mounting stud, 1/4-28 to 1/4-28 x .37 in. long, BeCu, no shoulder (1) Model 081B20 Mounting Stud, with shoulder (1/4-28 to 1/4-28) (1) Model 084B23 Impact cap, convex (for Model 200C20) (1) Model M081A61 Mounting Stud 1/4-28 to M6 X 1 (1)										
Size (Diameter x Height)	1.5 in x 0.5 in	38.1 mm x 12.7 mm												
Weight	3.1 oz	88 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	1/4-28 Female	Not Applicable												
<table border="1"> <tr> <td>Entered: BLS</td> <td>Engineer: BH</td> <td>Sales: RNM</td> <td>Approved: EB</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 2/10/09</td> <td>Date: 2/4/09</td> <td>Date: 2/4/09</td> <td>Date: 2/9/09</td> <td>5889</td> </tr> </table>					Entered: BLS	Engineer: BH	Sales: RNM	Approved: EB	Spec Number:	Date: 2/10/09	Date: 2/4/09	Date: 2/4/09	Date: 2/9/09	5889
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 [6]														
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.														
														
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