



Model Number <b>208A33</b>	<b>ICP<sup>®</sup> FORCE</b>			Revision: E ECN #: 15530
<b>Performance</b>		<b>ENGLISH</b>	<b>SI</b>	<b>OPTIONAL VERSIONS</b> 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 %)	5 mV/lb	1124.1 mV/kN		
Measurement Range (Compression)	1000 lb	4.448 kN		
Measurement Range (Tension)	500 lb	2.224 kN		
Maximum Static Force (Compression)	5000 lb	22.24 kN		
Maximum Static Force (Tension)	750 lb	3.336 kN		
Broadband Resolution (1 to 10000 Hz)	0.02 lb-rms	0.0000890 N-rms	[1]	
Low Frequency Response (-5 %)	0.0003 Hz	0.0003 Hz	[2]	
Upper Frequency Limit	20 kHz	20 kHz	[3]	
Non-Linearity	≤1 % FS	≤1 % FS	[4]	
<b>Environmental</b>				<b>NOTES:</b> [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	≤0.03 %/°F	≤0.054 %/°C		
<b>Electrical</b>				
Discharge Time Constant (at room temp)	≥2000 sec	≥2000 sec		
Excitation Voltage	20 to 30 VDC	20 to 30 VDC		
Constant Current Excitation	2 to 20 mA	2 to 20 mA		
Output Impedance	≤100 ohms	≤100 ohms		
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC		
Output Polarity (Compression)	Positive	Positive		
<b>Physical</b>				<b>SUPPLIED ACCESSORIES:</b> Model 084A19 Impact cap (for Model 208A33) (1)
Stiffness	5 lb/μin	0.88 kN/μm	[1]	
Size (Diameter x Height)	0.500 in x 1.37 in	12.7 mm x 34.80 mm		
Weight	0.67 oz	19 gm		
Housing Material	Stainless Steel	Stainless Steel		
Impact Tip Material	17-4 SS	17-4 SS		
Sealing	Epoxy	Epoxy		
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack		
Electrical Connection Position	Axial	Axial		
Mounting Thread	Not Applicable	M7 x 0.75 Male		
 [5]				
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 <sup>®</sup> is a registered trademark of PCB Group, Inc.				
		Entered: <i>KAR</i> Engineer: <i>KAR</i> Sales: <i>J/m</i> Approved: <i>mxc</i> Spec Number:		
Date: <i>11/30/02</i>		Date: <i>10/30/02</i>		Date: <i>10/30/02</i> Date: <i>10/30/02</i> <b>3004</b>
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