


Model Number 202M44	ICP® FORCE			Revision: NR ECN #:	
Performance	ENGLISH	SI		OPTIONAL VERSIONS	
Sensitivity (±15 %)	50 mV/lb	11240 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)	100 lb	0.4448 kN			
Maximum Static Force (Compression)	600 lb	2.689 kN			
Broadband Resolution (1 to 10000 Hz)	0.002 lb-rms	0.0089 N-rms	[1]		
Low Frequency Response (-5 %)	0.005 Hz	0.005 Hz	[2]	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] Molded integral cable terminating in pigtail.	
Upper Frequency Limit	60 kHz	60 kHz	[3]		
Non-Linearity	≤1 % FS	≤1 % FS	[4]		
Environmental					
Temperature Range	-65 to +250 °F	-54 to +121 °C		SUPPLIED ACCESSORIES: Model 080A82 Assembly Lubricant (1) Model 082B02 Anti-Friction Washer (1)	
Temperature Coefficient of Sensitivity	≤0.03 %/°F	≤0.054 %/°C			
Electrical					
Discharge Time Constant (at room temp)	≥100 sec	≥100 sec			
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 ohms	≤100 ohms			
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC			
Output Polarity (Compression)	Positive	Positive		[5]	
Physical					
Preload	300 lb	1.334 kN			
Stiffness	16 lb/μin	2.8 kN/μm			
Size (Diameter x Height x Bolt Diameter x Sensing Surface)	0.870 in x 0.390 in x 0.375 in x 0.665 in	22.1 mm x 9.91 mm x 10 mm x 16.89 mm		[5]	
Size (ID) (Hole Diameter)	0.413 in	10.49 mm			
Size (OD) (Sensor)	0.870 in	22.10 mm			
Weight	0.77 oz	22 gm			
Housing Material	Stainless Steel	Stainless Steel		[5]	
Sealing	Hermetic	Hermetic			
Electrical Connector	Molded Integral Cable	Molded Integral Cable			
Electrical Connection Position	Side	Side			
Cable Type	042 2-cond Shielded	042 2-cond Shielded		[5]	
Cable Length	20 ft	6.1 m			
<p><i>All specifications are at room temperature unless otherwise specified.</i> <i>In the interest of constant product improvement, we reserve the right to change specifications without notice.</i></p> <p>ICP® is a registered trademark of PCB Group, Inc.</p>					
Entered: <i>ZAB</i>		Engineer: <i>ZAB</i>	Sales: <i>JJM</i>	Approved: <i>DMB</i>	Spec Number:
Date: <i>3/27/03</i>	Date: <i>3/27/03</i>	Date: <i>3/27/03</i>	Date: <i>3/27/03</i>	22241	
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