



Model Number 202B	ICP® FORCE			Revision: C ECN #: 15530	
Performance	ENGLISH	SI		OPTIONAL VERSIONS	
Sensitivity (±15 %)	0.50 mV/lb	112.4 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)	10000 lb	44.48 kN		M - Metric Mount	
Maximum Static Force (Compression)	15000 lb	66.72 kN		Supplied Accessory : Model M081A12 Mounting Stud, M8 x 1.00, BeCu (1) replaces Model 081A12	
Broadband Resolution (1 to 10000 Hz)	0.20 lb-rms	0.890 N-rms	[1]	Supplied Accessory : Model M083B02 Pilot Bushing (1) replaces Model 083B02	
Low Frequency Response (-5 %)	0.0003 Hz	0.0003 Hz	[2]		
Upper Frequency Limit	60 kHz	60 kHz	[3]		
Non-Linearity	≤1 % FS	≤1 % FS	[4]		
Environmental				N - Negative Output Polarity	
Temperature Range	-65 to +250 °F	-54 to +121 °C		Output Polarity (Compression)	
Temperature Coefficient of Sensitivity	≤0.03 %/°F	≤ 0.054 %/°C		Negative Negative	
Electrical				W - Water Resistant Cable	
Discharge Time Constant (at room temp)	≥2000 sec	≥2000 sec		Electrical Connector	
Excitation Voltage	20 to 30 VDC	20 to 30 VDC		Electrical Connection Position	
Constant Current Excitation	2 to 20 mA	2 to 20 mA		Sealed Cable Sealed Cable	
Output Impedance	≤100 ohms	≤100 ohms		Side Side	
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC			
Output Polarity (Compression)	Positive	Positive			
Physical				NOTES:	
Preload	2000 lb	8.896 kN		[1] Typical.	
Stiffness	16 lb/μin	2.8 kN/μm	[1]	[2] Calculated from discharge time constant.	
Size (Diameter x Height x Bolt Diameter x ID x OD x Sensing Surface)	0.870 in x 0.390 in x 0.375 in x 0.413 in x 0.870 in x 0.665 in	22.1 mm x 9.91 mm x 10 mm x 10.49 mm x 22.10 mm x 16.89 mm		[3] Estimated using rigid body dynamics calculations.	
Weight	0.67 oz	19 gm		[4] Zero-based, least-squares, straight line method.	
Housing Material	Stainless Steel	Stainless Steel		[5] See PCB Declaration of Conformance PS023 for details.	
Sealing	Hermetic	Hermetic			
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack		SUPPLIED ACCESSORIES:	
Electrical Connection Position	Side	Side		Model 080A82 Assembly Lubricant (1)	
				Model 081A12 Mounting Stud, 5/16-24 x 0.910, BeCu (1)	
				Model 082B02 Anti-Friction Washer (1)	
				Model 083B02 Pilot Bushing (for Models 202B and 212B) (1)	
				Entered: Fab Engineer: KAB Sales: Jlm Approved: OMB Spec Number:	
				Date: 8/6/02 Date: 8/6/02 Date: 8/6/02 Date: 8/6/02 1122	
 [5] <p><i>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.</i></p> ICP® is a registered trademark of PCB Group, Inc.				 <p>PCB PIEZOTRONICS™ FORCE / TORQUE DIVISION 3425 Walden Avenue, Depew, NY 14043</p>	Phone: 716-684-0001 Fax: 716-684-8877 E-Mail: force@pcb.com