


Model Number 212B	CHARGE OUTPUT FORCE SENSOR				Revision: F ECN #: 41735
Performance	ENGLISH	SI			OPTIONAL VERSIONS
Sensitivity(± 15 %)	18 pC/lb	4047 pC/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. M - Metric Mount Supplied Accessory : Model 080A82 Assembly Lubricant Supplied Accessory : Model 082B02 Anti-Friction Washer Supplied Accessory : Model M081A12 Mounting Stud, M8 x 1.00, BeCu Supplied Accessory : Model M083B02 Pilot Bushing P - Positive Output Polarity W - Water Resistant Cable Electrical Connector Molded Integral Cable Molded Integral Cable Electrical Connection Position Side Side
Measurement Range(Compression)	≤ 10,000 lb	≤ 44.48 kN			
Maximum Static Force(Compression)	15,000 lb	66.72 kN			
Upper Frequency Limit	60,000 Hz	60,000 Hz	[2][3]		
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[4]		
Environmental					
Temperature Range	-100 to +400 °F	-73 to +204 °C			
Temperature Coefficient of Sensitivity	≤ 0.01 %/°F	≤ 0.018 %/°C			
Electrical					
Capacitance	19 pF	19 pF	[1]		
Insulation Resistance	≥ 1E12	≥ 1E12			
Physical					
Preload	2000 lb	8.896 kN			
Stiffness	16 lb/μin	2.8 kN/μm	[1]		
Size (Diameter x Height x Bolt Diameter x Sensing Surface)	0.870 in x 0.390 in x 3/8 in x 0.665 in	22.1 mm x 9.91 mm x 10 mm x 16.89 mm			
Size (ID)(Hole Diameter)	0.413 in	10.49 mm			
Size (OD)(Sensor)	0.870 in	22.1 mm			
Weight	0.67 oz	19 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			
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.					
NOTES: [1] Typical. [2] Estimated using rigid body dynamics calculations. [3] Low frequency response and system noise dependent on choice of external signal conditioning electronics. [4] Zero-based, least-squares, straight line method.					
SUPPLIED ACCESSORIES: Model 080A82 Assembly Lubricant Model 081A12 Mounting Stud, 5/16-24 x 0.910, BeCu Model 082B02 Anti-Friction Washer Model 083B02 Pilot bushing (for Models 202B and 212B)					
Entered: AP	Engineer: MJK	Sales: KWW	Approved: APB	Spec Number:	
Date: 9/5/2013	Date: 9/5/2013	Date: 9/5/2013	Date: 9/5/2013	1121	
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