


Model Number 214B	CHARGE OUTPUT FORCE SENSOR			Revision: G ECN #: 41735
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 %)	18 pC/lb	4047 pC/kN		
Measurement Range(Compression)	≤ 40,000 lb	≤ 177.92 kN		M - Metric Mount Supplied Accessory : Model 080A82 Assembly Lubricant Supplied Accessory : Model 082B04 Anti-friction washer (for Models 204C and 214B) Supplied Accessory : Model M081A14 Mounting Stud, M14 x 1.25 x 1.400, BeCu Supplied Accessory : Model M083B04 Pilot Bushing
Maximum Static Force(Compression)	50,000 lb	222.4 kN		
Upper Frequency Limit	55,000 Hz	55,000 Hz	[2][3]	
Non-Linearity	≤ 1.5 % FS	≤ 1.5 % FS	[4]	
Environmental				P - Positive Output Polarity
Temperature Range	-100 to +400 °F	-73 to +204 °C		
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C		W - Water Resistant Cable Electrical Connector Molded Integral Cable Molded Integral Cable Electrical Connection Position Side Side
Electrical				
Capacitance	32 pF	32 pF	[1]	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.
Insulation Resistance	≥ 1E12	≥ 1E12		
Physical				SUPPLIED ACCESSORIES: Model 080A82 Assembly Lubricant Model 081A14 Mounting Stud, 1/2-20 x 1.400, BeCu Model 082B04 Anti-friction washer (for Models 204C and 214B) Model 083B04 Pilot bushing (for Models 204C and 214B)
Preload	8000 lb	35.585 kN		
Stiffness	29 lb/μin	5 kN/μm	[1]	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 1337
Size (Diameter x Height x Bolt Diameter x Sensing Surface)	1.34 in x 0.470 in x 0.625 in x 1.10 in	34 mm x 11.9 mm x 16 mm x 28 mm		
Size (ID)(Hole Diameter)	0.660 in	16.76 mm		 Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com
Size (OD)(Sensor)	1.340 in	34 mm		
Weight	2 oz	57 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		
<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>				
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