

Model Number 214B	CHARGE OUTPUT FORCE SENSOR				Revision: G 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 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 P - Positive Output Polarity W - Water Resistant Cable Electrical Connector Molded Integral Cable Molded Integral Cable Electrical Connection Position Side Side
Measurement Range(Compression)	≤ 40,000 lb	≤ 177.92 kN			
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					
Temperature Range	-100 to +400 °F	-73 to +204 °C			
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C			
Electrical					
Capacitance	32 pF	32 pF		[1]	
Insulation Resistance	≥ 1E12	≥ 1E12			
Physical					
Preload	8000 lb	35.585 kN			
Stiffness	29 lb/μin	5 kN/μm		[1]	
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			
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. In the interest of constant product improvement, we reserve the right to change specifications without notice.</i>					
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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 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)					
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