


Model Number 218C	CHARGE OUTPUT FORCE SENSOR			Revision: M ECN #: 45224
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.
Measurement Range(Compression)	≤ 5000 lb	≤ 22.24 kN		P - Positive Output Polarity
Measurement Range(Tension)	≤ 500 lb	≤ 2.224 kN		Output Polarity(Compression)
Maximum Static Force(Compression)	8000 lb	35.59 kN		Positive Positive
Maximum Static Force(Tension)	500 lb	2.224 kN		W - Water Resistant Cable
Upper Frequency Limit	36,000 Hz	36,000 Hz	[2][3]	
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[4]	
Environmental				NOTES:
Temperature Range	-300 to +400 °F	-184 to +204 °C		[1]Typical.
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C		[2]Estimated using rigid body dynamics calculations.
Electrical				[3]Low frequency response and system noise dependent on choice of external signal conditioning electronics.
Capacitance	14 pF	14 pF	[1]	[4]Zero-based, least-squares, straight line method.
Insulation Resistance	≥ 1E12	≥ 1E12		
Physical				SUPPLIED ACCESSORIES:
Stiffness	6 lb/μin	1.05 kN/μm	[1]	Model 080A81 Thread Locker (1)
Size (Hex x Height x Sensing Surface)	0.625 in x 0.625 in x 0.500 in	15.88 mm x 15.88 mm x 12.7 mm		Model 081B05 Mounting Stud (10-32 to 10-32) (2)
Weight	0.79 oz	22.4 gm		Model 084A03 Impact Cap (1)
Housing Material	Stainless Steel	Stainless Steel		Model M081A62 Mounting stud, 10-32 to M6 x 1, BeCu with shoulder (2)
Sealing	Hermetic	Hermetic		
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack		
Electrical Connection Position	Side	Side		
Mounting Thread	10-32 Female	10-32 Female		
<p><i>All specifications are at room temperature unless otherwise specified.</i></p> <p><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: LK		Engineer: MJK		Sales: KWW
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