



Model Number 208C02		ICP® FORCE SENSOR		Revision: H ECN #: 34989	
Performance	ENGLISH	SI		OPTIONAL VERSIONS	
Sensitivity(± 15 %)	50 mV/lb	11,241 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)	100 lb	0.4448 kN		N - Negative Output Polarity	
Measurement Range(Tension)	100 lb	0.4448 kN		W - Water Resistant Cable	
Maximum Static Force(Compression)	600 lb	2.669 kN			
Maximum Static Force(Tension)	500 lb	2.224 kN			
Broadband Resolution(1 to 10,000 Hz)	0.001 lb-rms	0.004 N-rms	[1]		
Low Frequency Response(-5 %)	0.001 Hz	0.001 Hz	[2]		
Upper Frequency Limit	36,000 Hz	36,000 Hz	[3]		
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[4]		
Environmental					
Temperature Range	-65 to +250 °F	-54 to +121 °C			
Temperature Coefficient of Sensitivity	≤ 0.05 %/°F	≤ 0.09 %/°C			
Electrical				NOTES:	
Discharge Time Constant(at room temp)	≥ 500 sec	≥ 500 sec		[1]Typical.	
Excitation Voltage	20 to 30 VDC	20 to 30 VDC		[2]Calculated from discharge time constant.	
Constant Current Excitation	2 to 20 mA	2 to 20 mA		[3]Estimated using rigid body dynamics calculations.	
Output Impedance	≤ 100 Ohm	≤ 100 Ohm		[4]Zero-based, least-squares, straight line method.	
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC		[5]See PCB Declaration of Conformance PS023 for details.	
Spectral Noise(1 Hz)	0.000135 lb/√Hz	0.000603 N/√Hz	[1]		
Spectral Noise(10 Hz)	0.0000276 lb/√Hz	0.000123 N/√Hz	[1]		
Spectral Noise(100 Hz)	0.0000096 lb/√Hz	0.0000427 N/√Hz	[1]		
Spectral Noise(1000 Hz)	0.0000021 lb/√Hz	0.0000095 N/√Hz	[1]		
Output Polarity(Compression)	Positive	Positive			
Physical					
Stiffness	6 lb/μin	1.05 kN/μm	[1]	SUPPLIED ACCESSORIES:	
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 080A81 Thread Locker (1)	
Weight	0.80 oz	22.7 gm		Model 081B05 Mounting Stud (10-32 to 10-32) (2)	
Housing Material	Stainless Steel	Stainless Steel		Model 084A03 Impact Cap (1)	
Sealing	Hermetic	Hermetic		Model M081A62 Mounting stud, 10-32 to M6 x 1, BeCu with shoulder (2)	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack			
Electrical Connection Position	Side	Side			
Mounting Thread	10-32 Female	Not Applicable			
Mounting Torque(Recommended)	16 to 20 in-lb	181 to 226 N-cm			
			Entered: Engineer: MJK Sales: KWW Approved: Spec Number:		
			Date: Date: 2/11/2011 Date: 2/11/2011 Date: 8467		
 <p>[5]</p> <p>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.</p>					Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com
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