



Model Number 208C04		ICP® FORCE SENSOR		Revision: G ECN #: 45224	
Performance	ENGLISH	SI		OPTIONAL VERSIONS	
Sensitivity(± 15 %)	5 mV/lb	1124 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)	1000 lb	4.448 kN		N - Negative Output Polarity	Negative
Measurement Range(Tension)	500 lb	2.224 kN		Output Polarity(Compression)	Negative
Maximum Static Force(Compression)	6000 lb	26.69 kN		W - Water Resistant Cable	Sealed Cable Side
Maximum Static Force(Tension)	500 lb	2.224 kN		Electrical Connector	Sealed Cable Side
Broadband Resolution(1 to 10,000 Hz)	0.01 lb-rms	0.04448 N-rms	[1]	Electrical Connection Position	Sealed Cable Side
Low Frequency Response(-5 %)	0.0003 Hz	0.0003 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					
Discharge Time Constant(at room temp)	≥ 2000 sec	≥ 2000 sec		NOTES:	
Excitation Voltage	20 to 30 VDC	20 to 30 VDC		[1]Typical.	
Constant Current Excitation	2 to 20 mA	2 to 20 mA		[2]Calculated from discharge time constant.	
Output Impedance	≤ 100 Ohm	≤ 100 Ohm		[3]Estimated using rigid body dynamics calculations.	
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC		[4]Zero-based, least-squares, straight line method.	
Spectral Noise(1 Hz)	0.000798 lb/√Hz	0.00356 N/√Hz	[1]	[5]See PCB Declaration of Conformance PS023 for details.	
Spectral Noise(10 Hz)	0.000286 lb/√Hz	0.00128 N/√Hz	[1]		
Spectral Noise(100 Hz)	0.0000860 lb/√Hz	0.000384 N/√Hz	[1]		
Spectral Noise(1000 Hz)	0.0000276 lb/√Hz	0.000123 N/√Hz	[1]		
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 .500 in	15.88 mm x 15.88 mm x 12.7 mm		Model 081B05 Mounting Stud (10-32 to 10-32) (2)	
Weight	0.80 oz	22.7 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			
				Entered: LK	Engineer: MJK
				Sales: KWW	Approved: APB
				Date: 3/29/2016	Date: 3/29/2016
				Date: 3/29/2016	Date: 3/29/2016
					Spec Number: 8982
					
[5]				Phone: 716-684-0001	
All specifications are at room temperature unless otherwise specified.				Fax: 716-684-0987	
In the interest of constant product improvement, we reserve the right to change specifications without notice.				E-Mail: info@pcb.com	
ICP® is a registered trademark of PCB Group, Inc.				3425 Walden Avenue, Depew, NY 14043	



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