

Model Number 208C01		ICP® FORCE SENSOR		Revision: K ECN #: 45224	
Performance	ENGLISH	SI		OPTIONAL VERSIONS	
Sensitivity(± 15 %)	500 mV/lb	112,410 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)	10 lb	0.04448 kN		N - Negative Output Polarity	
Measurement Range(Tension)	10 lb	0.04448 kN		Output Polarity(Compression)	Negative Negative
Maximum Static Force(Compression)	60 lb	0.27 kN		W - Water Resistant Cable	
Maximum Static Force(Tension)	60 lb	0.27 kN			
Broadband Resolution(1 to 10,000 Hz)	0.0001 lb-rms	0.00045 N-rms	[2]		
Low Frequency Response(-5 %)	0.01 Hz	0.01 Hz	[3]		
Upper Frequency Limit	36,000 Hz	36,000 Hz	[4]		
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[5]		
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)	≥ 50 sec	≥ 50 sec		[1]Sensor contains protected electronics which may cause long 'turn-on' times.	
Excitation Voltage	18 to 30 VDC	18 to 30 VDC		[2]Typical.	
Constant Current Excitation	2 to 20 mA	2 to 20 mA		[3]Calculated from discharge time constant.	
Output Impedance	≤ 100 Ohm	≤ 100 Ohm		[4]Estimated using rigid body dynamics calculations.	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	[1]	[5]Zero-based, least-squares, straight line method.	
Spectral Noise(1 Hz)	0.0000126 lb/√Hz	0.0000562 N/√Hz	[2]	[6]See PCB Declaration of Conformance PS023 for details.	
Spectral Noise(10 Hz)	0.0000042 lb/√Hz	0.0000189 N/√Hz	[2]		
Spectral Noise(100 Hz)	0.0000015 lb/√Hz	0.0000067 N/√Hz	[2]		
Spectral Noise(1000 Hz)	0.0000005 lb/√Hz	0.0000023 N/√Hz	[2]		
Output Polarity(Compression)	Positive	Positive			
Physical				SUPPLIED ACCESSORIES:	
Stiffness	6 lb/μin	1.05 kN/μm	[2]	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	0.80 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
				Spec Number:	
				Date: 3/29/2016	Date: 3/29/2016
				Date: 3/29/2016	Date: 3/29/2016
					8625
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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.
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