

Model Number 208C01		ICP® FORCE SENSOR			Revision: K ECN #: 45224	
Performance		ENGLISH		SI		
Sensitivity(± 15 %)		500 mV/lb		112,410 mV/kN		
Measurement Range(Compression)		10 lb		0.04448 kN		
Measurement Range(Tension)		10 lb		0.04448 kN		
Maximum Static Force(Compression)		60 lb		0.27 kN		
Maximum Static Force(Tension)		60 lb		0.27 kN		
Broadband Resolution(1 to 10,000 Hz)		0.0001 lb-rms		0.00045 N-rms		
Low Frequency Response(-5 %)		0.01 Hz		0.01 Hz		
Upper Frequency Limit		36,000 Hz		36,000 Hz		
Non-Linearity		≤ 1 % FS		≤ 1 % FS		
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)		≥ 50 sec		≥ 50 sec		
Excitation Voltage		18 to 30 VDC		18 to 30 VDC		
Constant Current Excitation		2 to 20 mA		2 to 20 mA		
Output Impedance		≤ 100 Ohm		≤ 100 Ohm		
Output Bias Voltage		8 to 12 VDC		8 to 12 VDC		
Spectral Noise(1 Hz)		0.0000126 lb/√Hz		0.0000562 N/√Hz		
Spectral Noise(10 Hz)		0.0000042 lb/√Hz		0.0000189 N/√Hz		
Spectral Noise(100 Hz)		0.0000015 lb/√Hz		0.0000067 N/√Hz		
Spectral Noise(1000 Hz)		0.0000005 lb/√Hz		0.0000023 N/√Hz		
Output Polarity(Compression)		Positive		Positive		
Physical						
Stiffness		6 lb/μin		1.05 kN/μm		
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		
Weight		0.80 oz		22.7 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		
Mounting Thread		10-32 Female		10-32 Female		
						
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.						
OPTIONAL VERSIONS Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used. N - Negative Output Polarity Output Polarity(Compression)						



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