

Model Number 209C02		ICP® FORCE SENSOR			Revision: J ECN #: 45224	
Performance		ENGLISH	SI	OPTIONAL VERSIONS		
Sensitivity(± 15 %)		2200 mV/lb	494,604 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)		2.2 lb	0.00979 kN	M - Metric Mount		
Maximum Static Force(Compression)		11 lb	0.0489 kN	Supplied Accessory : Model M081A05 Mounting Stud 10-32 to M6 x 0.75 x 0.27" long BeCu (H900), no shoulder (1)		
Broadband Resolution(1 to 10,000 Hz)		0.00002 lb-rms	0.00009 N-rms	[1]		
Low Frequency Response(-5 %)		0.05 Hz	0.05 Hz	[2]		
Upper Frequency Limit		100,000 Hz	100,000 Hz	[3]		
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)		≥ 10 sec	≥ 10 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)		0.0000123 lb/√Hz	0.0000548 N/√Hz	[1]		
Spectral Noise(10 Hz)		0.0000009 lb/√Hz	0.0000042 N/√Hz	[1]		
Spectral Noise(100 Hz)		0.0000004 lb/√Hz	0.0000017 N/√Hz	[1]		
Spectral Noise(1000 Hz)		0.0000001 lb/√Hz	0.0000003 N/√Hz	[1]		
Output Polarity(Compression)		Positive	Positive			
Physical						
Stiffness		2 lb/μin	0.35 kN/μm	[1]		
Size (Hex x Height)		0.375 in x 0.610 in	9.53 mm x 15.49 mm			
Weight		0.28 oz	8 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	No Metric Equivalent			
						
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.						
						
		3425 Walden Avenue, Depew, NY 14043				
		Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com				