

Model Number 225C		ICP® FORCE SENSOR		Revision: H ECN #: 26908	
Performance	ENGLISH	SI		OPTIONAL VERSIONS	
Sensitivity(± 15 %)	0.14 mV/lb	31.47 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)	35,000 lb	155.69 kN		J - Ground Isolated	
Measurement Range(Tension)	12,000 lb	53.38 kN		M - Metric Mount	
Maximum Static Force(Compression)	42,500 lb	189.05 kN		N - Negative Output Polarity	
Maximum Static Force(Tension)	15,000 lb	66.73 kN		Output Polarity(Compression)	Negative Negative
Broadband Resolution(1 to 10,000 Hz)	0.1 lb-rms	0.445 N-rms	[1]	W - Water Resistant Cable	
Low Frequency Response(-5 %)	0.0003 Hz	0.0003 Hz	[2]	Electrical Connector	Sealed Cable Sealed Cable
Upper Frequency Limit	6 kHz	6 kHz	[3]	Electrical Connection Position	Side Side
Non-Linearity	≤ 1.5 % FS	≤ 1.5 % FS	[4]		
Environmental					
Temperature Range	-65 to +250 °F	-54 to +121 °C			
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C			
Electrical					
Discharge Time Constant(at room temp)	≥ 2000 sec	≥ 2000 sec			
Excitation Voltage	20 to 30 VDC	20 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 14 VDC	8 to 14 VDC			
Spectral Noise(1 Hz)	0.0204 lb/√Hz	0.0911 N/√Hz	[1]		
Spectral Noise(10 Hz)	0.00986 lb/√Hz	0.0440 N/√Hz	[1]		
Spectral Noise(100 Hz)	0.00328 lb/√Hz	0.0146 N/√Hz	[1]		
Spectral Noise(1 kHz)	0.00110 lb/√Hz	0.00491 N/√Hz	[1]		
Output Polarity(Compression)	Positive	Positive		NOTES:	
Physical				[1] Typical.	
Stiffness	6 lb/μin	1.05 kN/μm	[1]	[2] Calculated from discharge time constant.	
Size (Diameter x Height)	1.58 in x 3.00 in	40.13 mm x 76.2 mm		[3] Estimated using rigid body dynamics calculations.	
Weight	14.5 oz	412 gm		[4] Zero-based, least-squares, straight line method.	
Housing Material	Stainless Steel	Stainless Steel		[5] See PCB Declaration of Conformance PS023 for details.	
Sealing	Hermetic	Hermetic			
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack			
Electrical Connection Position	Side	Side			
Mounting Thread	3/4 - 16 Female	3/4 - 16 Female			
			Entered: <i>BLS</i> Engineer: <i>YJK</i> Sales: <i>DPC</i> Approved: <i>DYR</i> Spec Number:		
			Date: <i>7-20-07</i> Date: <i>7-19-07</i> Date: <i>7-19-07</i> Date: <i>7-17-07</i> 8278		
			PCB PIEZOTRONICS™ FORCE / TORQUE DIVISION 3425 Walden Avenue, Depew, NY 14043		
			Phone: 716-684-0001 Fax: 716-684-8877 E-Mail: force@pcb.com		



[5]

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.



Represented in India by
Structural Solutions Pvt Ltd. | Phone: 040 2322 2380 | Email: sales@stsols.com

#4th Floor, Sudheer Tapani Towers, Himayath Nagar, Hyderabad - 500 029