


Model Number 224C		ICP® FORCE SENSOR		Revision: G ECN #: 40706	
Performance		ENGLISH	SI	OPTIONAL VERSIONS	
Sensitivity(± 15 %)		0.20 mV/lb	44.96 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)		25,000 lb	111.2 kN	J - Ground Isolated	
Measurement Range(Tension)		8000 lb	35.59 kN	M - Metric Mount	
Maximum Static Force(Compression)		29,000 lb	129.00 kN	Mounting Thread M16 x 1.50 Female	
Maximum Static Force(Tension)		10,000 lb	44.48 kN	N - Negative Output Polarity	
Broadband Resolution(1 to 10,000 Hz)		0.60 lb-rms	2.67 N-rms	W - Water Resistant Cable	
Low Frequency Response(-5 %)		0.0003 Hz	0.0003 Hz	Electrical Connector Sealed Cable	
Upper Frequency Limit		8 kHz	8 kHz	Electrical Connection Position Side	
Non-Linearity		≤ 1.5 % FS	≤ 1.5 % FS		
Environmental				NOTES:	
Temperature Range		-65 to +250 °F	-54 to +121 °C	[1] Typical.	
Temperature Coefficient of Sensitivity		≤ 0.03 %/°F	≤ 0.054 %/°C	[2] Calculated from discharge time constant.	
Electrical				[3] Estimated using rigid body dynamics calculations.	
Discharge Time Constant(at room temp)		≥ 2000 sec	≥ 2000 sec	[4] Zero-based, least-squares, straight line method.	
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)		0.041 lb/√Hz	0.18 N/√Hz		
Spectral Noise(10 Hz)		0.014 lb/√Hz	0.062 N/√Hz		
Spectral Noise(100 Hz)		0.0039 lb/√Hz	0.017 N/√Hz		
Spectral Noise(1 kHz)		0.00097 lb/√Hz	0.0043 N/√Hz		
Physical					
Stiffness		6 lb/μin	1.05 kN/μm		
Size (Diameter x Height)		1.34 in x 2.50 in	34.04 mm x 63.5 mm		
Weight		8.7 oz	246 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		5/8 - 18 Female	5/8 - 18 Female		
<p><i>All specifications are at room temperature unless otherwise specified.</i></p> <p><i>In the interest of constant product improvement, we reserve the right to change specifications without notice.</i></p> <p>ICP® is a registered trademark of PCB Group, Inc.</p>					
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