


Model Number 224C		ICP® FORCE SENSOR		Revision: G ECN #: 40706	
Performance		ENGLISH	SI	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.					
Sensitivity(± 15 %)	0.20 mV/lb	44.96 mV/kN		J - Ground Isolated	
Measurement Range(Compression)	25,000 lb	111.2 kN		M - Metric Mount	
Measurement Range(Tension)	8000 lb	35.59 kN		Mounting Thread M16 x 1.50 Female	
Maximum Static Force(Compression)	29,000 lb	129.00 kN		N - Negative Output Polarity	
Maximum Static Force(Tension)	10,000 lb	44.48 kN		W - Water Resistant Cable	
Broadband Resolution(1 to 10,000 Hz)	0.60 lb-rms	2.67 N-rms	[1]	Electrical Connector	Sealed Cable Side
Low Frequency Response(-5 %)	0.0003 Hz	0.0003 Hz	[2]	Electrical Connection Position	Sealed Cable Side
Upper Frequency Limit	8 kHz	8 kHz	[3]		
Non-Linearity	≤ 1.5 % FS	≤ 1.5 % FS	[4]		
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	[1]		
Spectral Noise(10 Hz)	0.014 lb/√Hz	0.062 N/√Hz	[1]		
Spectral Noise(100 Hz)	0.0039 lb/√Hz	0.017 N/√Hz	[1]		
Spectral Noise(1 kHz)	0.00097 lb/√Hz	0.0043 N/√Hz	[1]		
Physical					
Stiffness	6 lb/μin	1.05 kN/μm	[1]		
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			
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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