

Model Number 221B03	ICP® FORCE SENSOR			Revision: K ECN #: 45758
Performance	ENGLISH	SI	OPTIONAL VERSIONS	
Sensitivity(± 15 %)	10 mV/lb	2248.2 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)	500 lb	2.224 kN	J - Ground Isolated	
Measurement Range(Tension)	500 lb	2.224 kN	M - Metric Mount	
Maximum Static Force(Compression)	3000 lb	13.34 kN	Mounting Thread	
Maximum Static Force(Tension)	1000 lb	4.448 kN	M6 x 0.75 Female	
Broadband Resolution(1 to 10,000 Hz)	0.01 lb-rms	0.04448 N-rms	N - Negative Output Polarity	
Low Frequency Response(-5 %)	0.002 Hz	0.002 Hz	Output Polarity(Compression)	
Upper Frequency Limit	15 kHz	15 kHz	Negative Negative	
Non-Linearity	≤ 1.5 % FS	≤ 1.5 % FS	W - Water Resistant Cable	
Environmental			Electrical Connector	
Temperature Range	-65 to +250 °F	-54 to +121 °C	Electrical Connection Position	
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C	Sealed Cable Side Sealed Cable Side	
Electrical			NOTES:	
Discharge Time Constant(at room temp)	≥ 400 sec	≥ 400 sec	[1]Typical.	
Excitation Voltage	20 to 30 VDC	20 to 30 VDC	[2]Calculated from discharge time constant.	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	[3]Estimated using rigid body dynamics calculations.	
Output Impedance	≤ 100 Ohm	≤ 100 Ohm	[4]Zero-based, least-squares, straight line method.	
Output Bias Voltage	8 to 14 VDC	8 to 14 VDC	[5]See PCB Declaration of Conformance PS023 for details.	
Output Polarity(Compression)	Positive	Positive	OPTIONAL ACCESSORIES:	
Physical			Model 081A06 Mounting stud, 1/4-28 to 1/4-28 x .37 in. long, BeCu, no shoulder (1)	
Stiffness	2 lb/μin	0.35 kN/μm	Entered: LK	
Size (Diameter x Height)	0.65 in x 1.25 in	16.51 mm x 31.75 mm	Engineer: APB	
Weight	1.1 oz	31 gm	Sales: KWW	
Housing Material	Stainless Steel	Stainless Steel	Approved: APB	
Sealing	Hermetic	Hermetic	Spec Number:	
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack	Date: 7/28/2016	
Electrical Connection Position	Side	Side	Date: 7/28/2016	
Mounting Thread	1/4-28 Female	1/4-28 Female	Date: 7/28/2016	
 [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.			Date: 7/28/2016	
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			 3425 Walden Avenue, Depew, NY 14043	
			Phone: 716-684-0001 Fax: 716-684-0987 E-Mail: info@pcb.com	