

Model Number 221B04	<b>ICP® FORCE SENSOR</b>	Revision: H ECN #: 45758
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	<u>ENGLISH</u>	<u>SI</u>
<b>Performance</b>		
Sensitivity(± 15 %)	5 mV/lb	1124.1 mV/kN
Measurement Range(Compression)	1000 lb	4.448 kN
Measurement Range(Tension)	1000 lb	4.448 kN
Maximum Static Force(Compression)	6000 lb	26.69 kN
Maximum Static Force(Tension)	1200 lb	5.34 kN
Broadband Resolution(1 to 10,000 Hz)	0.02 lb-rms	0.08896 N-rms
Low Frequency Response(-5 %)	0.001 Hz	0.001 Hz
Upper Frequency Limit	15 kHz	15 kHz
Non-Linearity	≤ 1.5 % FS	≤ 1.5 % FS
<b>Environmental</b>		
Temperature Range	-65 to +250 °F	-54 to +121 °C
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C
<b>Electrical</b>		
Discharge Time Constant(at room temp)	≥ 700 sec	≥ 700 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
Output Polarity(Compression)	Positive	Positive
<b>Physical</b>		
Stiffness	2 lb/μin	0.35 kN/μm
Size (Diameter x Height)	0.65 in x 1.25 in	16.51 mm x 31.75 mm
Weight	1.1 oz	31 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	1/4-28 Female	1/4-28 Female

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.		
J - Ground Isolated		
M - Metric Mount		
Mounting Thread		M6 x 0.75 Female
N - Negative Output Polarity		
Output Polarity(Compression)	Negative	Negative
W - Water Resistant Cable		
Electrical Connector	Sealed Cable	Sealed Cable
Electrical Connection Position	Side	Side

**NOTES:**  
 [1]Typical.  
 [2]Calculated from discharge time constant.  
 [3]Estimated using rigid body dynamics calculations.  
 [4]Zero-based, least-squares, straight line method.  
 [5]See PCB Declaration of Conformance PS023 for details.

**OPTIONAL ACCESSORIES:**  
 Model 081A06 Mounting stud, 1/4-28 to 1/4-28 x .37 in. long, BeCu, no shoulder (1)

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3425 Walden Avenue, Depew, NY 14043

Phone: 716-684-0001  
 Fax: 716-684-0987  
 E-Mail: info@pcb.com



*All specifications are at room temperature unless otherwise specified.  
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