

Model Number 221B01	ICP® FORCE SENSOR	Revision: H ECN #: 45758
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	ENGLISH	SI
Performance		
Sensitivity(± 15 %)	500 mV/lb	112,404 mV/kN
Measurement Range(Compression)	10 lb	0.04448 kN
Measurement Range(Tension)	10 lb	0.04448 kN
Maximum Static Force(Compression)	60 lb	0.2669 kN
Maximum Static Force(Tension)	60 lb	0.2669 kN
Broadband Resolution(1 to 10,000 Hz)	0.0002 lb-rms	0.0008896 N-rms
Low Frequency Response(-5 %)	0.01 Hz	0.01 Hz
Upper Frequency Limit	15 kHz	15 kHz
Non-Linearity	≤ 1.5 % FS	≤ 1.5 % FS
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)	≥ 50 sec	≥ 50 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
Physical		
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)

Entered: LK	Engineer: APB	Sales: KWW	Approved: APB	Spec Number:
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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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