

Model Number 200B01	ICP® FORCE SENSOR			Revision: K ECN #: 31200
Performance	ENGLISH	SI		OPTIONAL VERSIONS
Sensitivity(± 15 %)	500 mV/lb	112,410 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)	10 lb	0.04448 kN		
Maximum Static Force(Compression)	150 lb	0.6672 kN		
Broadband Resolution(1 to 10,000 Hz)	0.0002 lb-rms	0.0008896 N-rms	[2]	N - Negative Output Polarity
Low Frequency Response(-5 %)	0.01 Hz	0.01 Hz	[3]	Output Polarity(Compression) Negative Negative
Upper Frequency Limit	75 kHz	75 kHz	[4]	
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[5]	W - Water Resistant Cable
Environmental				Electrical Connector Sealed Cable Sealed Cable
Temperature Range	-65 to +250 °F	-54 to +121 °C		Electrical Connection Position Side Side
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C		
Electrical				NOTES:
Discharge Time Constant(at room temp)	≥ 50 sec	≥ 50 sec		[1] Sensor contains protected electronics which may cause long 'turn-on' times.
Excitation Voltage	18 to 30 VDC	18 to 30 VDC		[2] Typical.
Constant Current Excitation	2 to 20 mA	2 to 20 mA		[3] Calculated from discharge time constant.
Output Impedance	≤ 100 ohm	≤ 100 ohm		[4] Estimated using rigid body dynamics calculations.
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	[1]	[5] Zero-based, least-squares, straight line method.
Output Polarity(Compression)	Positive	Positive		[6] See PCB Declaration of Conformance PS023 for details.
Physical				SUPPLIED ACCESSORIES:
Stiffness	11 lb/μin	1.9 kN/μm	[2]	Model 080A81 Thread Locker (1)
Size (Diameter x Height x Sensing Surface)	0.650 in x 0.360 in x 0.500 in	16.51 mm x 9.14 mm x 12.7 mm		Model 081B05 Mounting Stud (10-32 to 10-32) (1)
Weight	0.5 oz	14 gm		Model 084A83 Impact Pad (1)
Housing Material	Stainless Steel	Stainless Steel		Model M081A62 Mounting stud, 10-32 to M6 x 1, BeCu with shoulder (1)
Sealing	Hermetic	Hermetic		
Electrical Connector	10-32 Coaxial Jack	10-32 Coaxial Jack		
Electrical Connection Position	Side	Side		
Mounting Thread	10-32 Female	10-32 Female		
				Entered: <i>JH</i> Engineer: <i>ngl</i> Sales: <i>Kuw</i> Approved: <i>EB</i> Spec Number:
				Date: <i>8-17-09</i> Date: <i>7-29-09</i> Date: <i>7-29-09</i> Date: <i>7-29-09</i> 200-2010-80
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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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