



Model Number <b>201B04</b>	<b>ICP® FORCE SENSOR</b>		Revision: E ECN #: 35154	
<b>Performance</b>	<b>ENGLISH</b>	<b>SI</b>	<b>OPTIONAL VERSIONS</b>	
Sensitivity(± 15 %)	5 mV/lb	1124 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)	1000 lb	4.448 kN	<b>N</b> - Negative Output Polarity	
Maximum Static Force(Compression)	6000 lb	26.69 kN	Output Polarity(Compression)	Negative
Broadband Resolution(1 to 10,000 Hz)	0.02 lb-rms	0.08896 N-rms	<b>W</b> - Water Resistant Cable	
Low Frequency Response(-5 %)	0.001 Hz	0.001 Hz	Electrical Connector	Sealed Cable
Upper Frequency Limit	90 kHz	90 kHz	Electrical Connection Position	Sealed Cable Side
Non-Linearity	≤ 1 % FS	≤ 1 % 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>				
Preload	400 lb	1.78 kN		
Stiffness	12 lb/μin	2.1 kN/μm		
Size (Diameter x Height x Bolt Diameter x Sensing Surface)	0.650 in x 0.310 in x 0.25 in x 0.50 in	16.5 mm x 7.9 mm x 6 mm x 12.7 mm		
Size (ID)(Hole Diameter)	0.251 in	6.38 mm		
Size (OD)(Sensor)	0.650 in	16.51 mm		
Weight	0.35 oz	10 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		
				
<p>[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.</p>				
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			<b>NOTES:</b>	
			<p>[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.</p>	
			<b>SUPPLIED ACCESSORIES:</b>	
			<p>Model 080A82 Assembly Lubricant (1) Model 081A11 Mounting Stud, 10-32 x 0.730, BeCu (1) Model 082B01 Anti-Friction Washer (1) Model 083B01 Pilot Bushing (1) Model M081A11 Mounting Stud, M5 x 0.8 x 0.730, BeCu (1) Model M083B01 Pilot Bushing (1)</p>	
Entered: <i>Yomw</i>	Engineer: <i>ngy</i>	Sales: <i>prwd</i>	Approved: <i>FR</i>	Spec Number:
Date: <i>3/1/11</i>	Date: <i>3/1/11</i>	Date: <i>3/1/11</i>	Date: <i>3/1/11</i>	201-2040-80
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