



Model Number 201B02	ICP® FORCE SENSOR			Revision: E ECN #: 35154
<b>Performance</b>	<b>ENGLISH</b>	<b>SI</b>	<b>OPTIONAL VERSIONS</b>	
Sensitivity(± 15 %)	50 mV/lb	11,240 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)	100 lb	0.4448 kN		
Maximum Static Force(Compression)	600 lb	2.67 kN		
Broadband Resolution(1 to 10,000 Hz)	0.002 lb-rms	0.00890 N-rms	[1]	<b>N</b> - Negative Output Polarity
Low Frequency Response(-5 %)	0.006 Hz	0.006 Hz	[2]	Output Polarity(Compression)
Upper Frequency Limit	90 kHz	90 kHz	[3]	Negative
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[4]	Negative
<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)	≥ 120 sec	≥ 120 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	100 lb	0.445 kN		
Stiffness	12 lb/μin	2.1 kN/μm	[1]	
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		
<b>NOTES:</b>				
[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.				
<b>SUPPLIED ACCESSORIES:</b>				
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)				
Entered: pmw Engineer: ngt Sales: pmw Approved: EB Spec Number:				
Date: 3/1/11 Date: 3/1/11 Date: 3/1/11 Date: 3/1/11 201-2020-80				
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[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.  
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