



Model Number 201B76	ICP® FORCE SENSOR				Revision: B ECN #: 53334
<b>Performance</b>			<b>ENGLISH</b>	<b>SI</b>	<b>OPTIONAL VERSIONS</b>
Sensitivity(± 15 %)	1 mV/lb	224.8 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)	5,000 lb	22.24 kN			
Maximum Static Force(Compression)	5,000 lb	22.24 kN			
Broadband Resolution(1 to 10,000 Hz)	0.10 lb-rms	0.445 N-rms	[1]	<b>M</b> - Metric Mount	
Low Frequency Response(- 5 %)	0.0003 Hz	0.0003 Hz	[2]	Supplied Accessory: Model M081A11 Mounting Stud, M5 x 0.8 x 0.730, BeCu (1) replaces Model 081A11	
Upper Frequency Limit	90,000 Hz	90,000 Hz	[3]	Supplied Accessory: Model M083A15 Pilot Bushing, M5 x 0.8 (1) replaces Model 083A15	
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[4]	<b>W</b> - Water Resistant Cable	
<b>Environmental</b>				Electrical Connector	
Temperature Range	-65 to +250 °F	-54 to +121 °C		Sealed Cable Side	
Temperature Coefficient of Sensitivity	≤ 0.03 %/°F	≤ 0.054 %/°C		Sealed Cable Side	
<b>Electrical</b>					
Discharge Time Constant	≥ 2,000 sec	≥ 2,000 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			
Spectral Noise(1 Hz)	0.00307 lb/√Hz	0.0137 N/√Hz	[1]		
Spectral Noise(10 Hz)	0.00115 lb/√Hz	0.00513 N/√Hz	[1]		
Spectral Noise(100 Hz)	0.000402 lb/√Hz	0.00179 N/√Hz	[1]		
Spectral Noise(1,000 Hz)	0.000114 lb/√Hz	0.000509 N/√Hz	[1]		
Output Polarity(Compression)	Positive	Positive			
<b>Physical</b>					
Preload	1,000 lb	4.448 kN			
Stiffness	16 lb/μin	2.8 kN/μm	[1]		
Weight	0.25 oz	7 gm			
Housing Material	Stainless Steel	Stainless Steel			
Sealing	Hermetic	Hermetic			
Electrical Connector	5-44 Coaxial Jack	5-44 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 081A11 Mounting Stud, 10-32 x 0.730, BeCu (1)					
Model 083A15 Pilot Bushing, 10-32 (1)					
<b>Entered: ND</b>					
<b>Engineer: MP</b>					
<b>Sales: BS</b>					
<b>Approved: RPF</b>					
<b>Spec Number:</b>					
<b>Date: 11/01/2022</b>					
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