

	ENGLISH	SI	
<b>Performance</b>			
Sensitivity(± 20 %)(z axis)	2.5 mV/lb	0.56 mV/N	[1][2]
Sensitivity(± 20 %)(x or y axis)	10 mV/lb	2.25 mV/N	[1][2]
Measurement Range(z axis)	1000 lb	4.45 kN	
Measurement Range(x or y axis)	500 lb	2.22 kN	
Maximum Force(z axis)	1320 lb	5.87 kN	
Maximum Force(x or y axis)	660 lb	2.94 kN	
Maximum Moment(z axis)	14 ft-lb	18.98 N-m	
Maximum Moment(x or y axis)	13 ft-lb	17.63 N-m	
Broadband Resolution(z axis)	0.006 lb-rms	0.027 N-rms	[3]
Broadband Resolution(x or y axis)	0.002 lb-rms	0.0089 N-rms	[3]
Upper Frequency Limit	90 kHz	90 kHz	
Low Frequency Response(-5 %)(z-axis)	0.01 Hz	0.01 Hz	
Low Frequency Response(-5 %)(x or y axis)	0.001 Hz	0.001 Hz	
Non-Linearity	≤ 1 % FS	≤ 1 % FS	[4]
Cross Talk(between x and y axis)	± 3 %	± 3 %	
Cross Talk(between (x or y axis) and z axis)	± 5 %	± 5 %	
<b>Environmental</b>			
Temperature Range	-65 to +250 °F	-54 to +121 °C	
<b>Electrical</b>			
Full Scale Output(Z Direction)	± 2.5 VDC	± 2.5 VDC	
Full Scale Output(X and Y Direction)	± 5 VDC	± 5 VDC	
Discharge Time Constant(z axis)	≥ 50 sec	≥ 50 sec	
Discharge Time Constant(x or y axis)	≥ 500 sec	≥ 500 sec	
Excitation Voltage(all channels)	20 to 30 VDC	20 to 30 VDC	
Constant Current Excitation(all channels)	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)(X & Y)	0.0003 lb/√Hz	0.00134 N/√Hz	
Spectral Noise(10 Hz)(X & Y)	0.00015 lb/√Hz	0.000668 N/√Hz	
Spectral Noise(100 Hz)(X & Y)	0.00005 lb/√Hz	0.000223 N/√Hz	
Spectral Noise(1 kHz)(X & Y)	0.000015 lb/√Hz	0.0000668 N/√Hz	
Spectral Noise(1 Hz)(Z)	0.0015 lb/√Hz	0.00668 N/√Hz	
Spectral Noise(10 Hz)(Z)	0.00055 lb/√Hz	0.00245 N/√Hz	
Spectral Noise(100 Hz)(Z)	0.0002 lb/√Hz	0.000891 N/√Hz	
Spectral Noise(1 kHz)(Z)	0.000055 lb/√Hz	0.000245 N/√Hz	
Output Polarity	Positive	Positive	
<b>Physical</b>			
Preload	5000 lb	22.25 kN	[5]
Stiffness(z axis)	10 lb/μin	1.75 kN/μm	[3]
Stiffness(x or y axis)	4 lb/μin	0.7 kN/μm	[3]
Size (Height x Length x Width x Bolt Diameter x ID x Sensing Surface)	0.390 in x 1.075 in x 0.95 in x 0.205 in x 0.319 in x 0.680 in	9.90 mm x 27.3 mm x 24.1 mm x 5.21 mm x 8.10 mm x 17.27 mm	
Weight	0.927 oz	26.27 gm	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Hermetic	Hermetic	
Electrical Connector	4-Pin	4-Pin	
Electrical Connection Position	Side	Side	

**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.

**M** - Metric Mount  
Supplied Accessory : Model M081A70 Mounting Stud (1) replaces Model 081A70

**W** - Water Resistant Cable  
Electrical Connection Position Side      Side

**NOTES:**

[1] Sensitivities are for listed preload. Sensitivities may vary ±5% depending on preload used.  
 [2] Sensitivities are dependent upon supplied bolt.  
 [3] Typical.  
 [4] Zero-based, least-squares, straight line method.  
 [5] Preload should be at least 10 times the X and Y operating range used.  
 [6] See PCB Declaration of Conformance PS023 for details.

**SUPPLIED ACCESSORIES:**  
 Model 081A70 Mounting Stud (1)  
 Model 082B02 Anti-Friction Washer (1)  
 Model 083A10 Pilot Bushing (1)

Entered: <i>Jet</i>	Engineer: <i>BAM</i>	Sales: <i>KW</i>	Approved: <i>EB</i>	Spec Number:
Date: <i>12-15-08</i>	Date: <i>12-12-08</i>	Date: <i>12-12-08</i>	Date: <i>12-15-08</i>	7753



[6] 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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