

	ENGLISH	SI	
Performance			
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 %	
Environmental			
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Electrical			
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	
Physical			
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

CE [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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