

	ENGLISH	SI	
<b>Performance</b>			
Sensitivity(Channel A)	334,566 counts/g	34,105 counts/(m/s <sup>2</sup> )	[2][3]
Sensitivity(Channel B)	664,689 counts/g	67,756 counts/(m/s <sup>2</sup> )	[2][3]
Measurement Range(Channel A)	± 20 g pk	± 196 m/s <sup>2</sup> pk	[1]
Measurement Range(Channel B)	± 10 g pk	± 98 m/s <sup>2</sup> pk	[1]
ADC Bandwidth(-3 dB)	9.3 to 1,374,000 cpm	0.155 to 22,900 Hz	
Frequency Range(± 5 %)	120 to 480,000 cpm	2 to 8000 Hz	[4][1]
Frequency Range(± 10 %)	90 to 660,000 cpm	1.5 to 11,000 Hz	[4][1]
Frequency Range(± 3 dB)	54 to 900,000 cpm	0.9 to 15,000 Hz	[4][1]
Resonant Frequency	≥ 1500 kcpm	≥ 25 kHz	
Mounted Resonance	1044 kcpm	17.4 kHz	[1]
Mounted Resonance Amplification	200 %	200 %	[1]
Broadband Resolution(1 to 10,000 Hz)	0.0025 g pk	0.0245 m/s <sup>2</sup> pk	[1][3]
Non-Linearity	≤ 2 %	≤ 2 %	[5]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
<b>Environmental</b>			
Overload Limit(Shock)	7000 g pk	68,647 m/s <sup>2</sup> pk	
Temperature Range(Operating)	+14 to +158 °F	-10 to +70 °C	
Temperature Response(Coefficient)	0.10 %/°F	0.18 %/°C	[1]
<b>Electrical</b>			
Communication Standard	USB 2.0 Full Speed	USB 2.0 Full Speed	
Power Consumption	≤ 45 mA	≤ 45 mA	[1]
Internal ADC	24 bit	24 bit	
Supported Resolution Rates(Selectable)	24 bit 16 bit	24 bit 16 bit	
Supported Sample Rates(Selectable)	48 44.1 32 22.05 16 11.025 8 kHz	48 44.1 32 22.05 16 11.025 8 kHz	
<b>Physical</b>			
Size (Hex x Height)	1.0 in x 2.6 in	25.4 mm x 66.0 mm	
Weight	4.62 oz	131 gm	
Mounting Thread	1/4-28 UNF	1/4-28 UNF	[6]
Mounting Torque	2 to 5 ft-lb	2.7 to 6.8 Nm	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Stainless Steel	Stainless Steel	
Sealing	Welded Hermetic	Welded Hermetic	
Electrical Connector	Integral Cable	Integral Cable	
Electrical Connector	USB Type A Male	USB Type A Male	
Electrical Connection Position	Top	Top	
Cable Length	9.6 ft	2.9 m	

**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.

**NOTES:**

[1] Typical.  
 [2] Typical value. For actual calibrated sensitivity values, refer to calibration label.  
 [3] Conversion Factor 1g = 9.81 m/s<sup>2</sup>.  
 [4] Frequency range at highest supported sample rate.  
 [5] Zero-based, least-squares, straight line method.  
 [6] 1/4-28 has no equivalent in S.I. units.  
 [7] See PCB Declaration of Conformance PS023 for details.

**SUPPLIED ACCESSORIES:**  
 Model 081A40 Mounting Stud

Entered: LK	Engineer: GD	Sales: MC	Approved: BAM	Spec Number:
Date: 7/21/2018	Date: 7/21/2018	Date: 7/21/2018	Date: 7/21/2018	<b>69746</b>



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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Aufgrund laufender Weiterentwicklungen sind Änderungen der Spezifikationen vorbehalten. Alle Angaben vorbehaltlich Satz- und Druckfehler.

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