

PERFORMANCE

Sensitivity ^{1,2,3}	Channel A	4.00 % FSV/g	0.408 % FSV/m/s ²
	Channel B	7.96 % FSV/g	0.811 % FSV/m/s ²
Measurement Range ⁵	Channel A	± 20 g pk	± 196 m/s ² pk
	Channel B	± 10 g pk	± 98 m/s ² pk
ADC Bandwidth (-3dB)		9.3 cpm to 1374000 cpm	0.155 Hz to 22900 Hz
Frequency Range (± 5%)		120 cpm to 480000 cpm	2 Hz to 8000 Hz
Frequency Range (± 10%) ³		90 cpm to 660000 cpm	1.5 Hz to 11000 Hz
Frequency Range (± 3 dB) ³		54 cpm to 900000 cpm	0.9 Hz to 15000 Hz
Resonant Frequency		≥ 1500000 cpm	≥ 25000 Hz
Mounted Resonance ³		1044000 cpm	17400 Hz
Mounted Resonance Amplification ³		200%	200%
Broadband Resolution ¹ (1 Hz to 10000 Hz)		0.0025 g pk	0.0245 m/s ² pk
Non-Linearity ⁴		≤ 2 %	≤ 2 %
Transverse Sensitivity		≤ 5 %	≤ 5 %

ENVIRONMENTAL

Overload Limit (Shock)	7000 g pk	68647 m/s ² pk
Temperature Range (Operating)	14 °F to 158 °F	-10 °C to +70 °C
Temperature Coefficient	0.10 % / °F	0.18 % / °C

ELECTRICAL

Communication Standard	USB 2.0 Full Speed	USB 2.0 Full Speed
Power Consumption ³	≤ 45 mA	≤ 45 mA
Internal ADC	24 bit	24 bit
Supported Sample Rates	24 bit @ 48, 44.1, 32, 22.05, 16, 11.025, 8 kHz	24 bit @ 48, 44.1, 32, 22.05, 16, 11.025, 8 kHz
	16 bit @ 48, 44.1, 32, 22.05, 16, 11.025, 8 kHz	16 bit @ 48, 44.1, 32, 22.05, 16, 11.025, 8 kHz

MECHANICAL

Size – Hex	1.0 in	25.4 mm
Size – Height	2.6 in	66.0 mm
Weight	4.62 oz	131 gram
Mounting Thread	1/4-28 UNF	1/4-28 UNF
Mounting Torque	2 lbf ft to 5 lbf ft	2.7 N m to 6.8 N m
Sensing Element	Piezoelectric Ceramic	Piezoelectric Ceramic
Sensing Geometry	Shear	Shear
Housing Material	Stainless Steel	Stainless Steel
Sealing	Welded Hermetic	Welded Hermetic
Electrical Connector	USB Type A Male	USB Type A Male
Electrical Connection Position	Top	Top
Cable (Integral) Length	9.6 ft	2.9 m

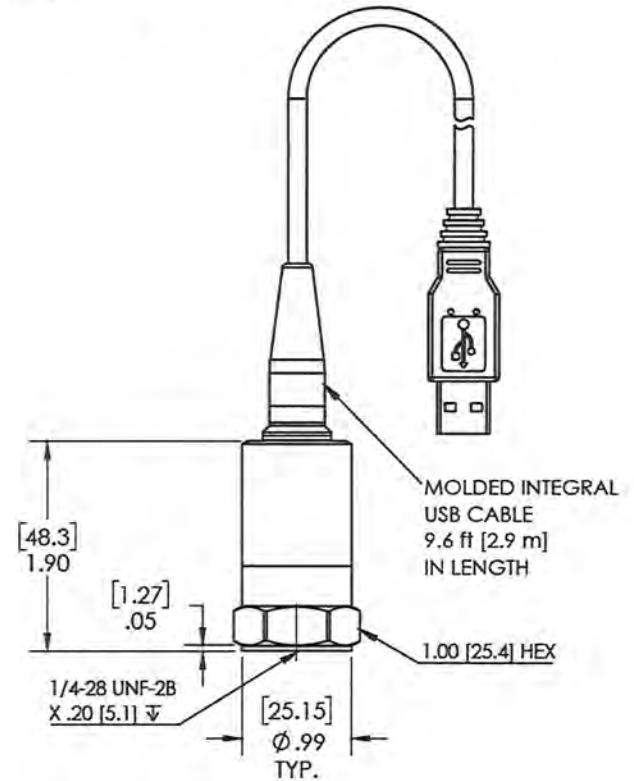
NOTES:

- ¹ Conversion Factor 1g = 9.80665 m/s²
- ² FSV = Full Scale Value
- ³ Typical
- ⁴ Zero-based, least square straight line method
- ⁵ Minimum Range

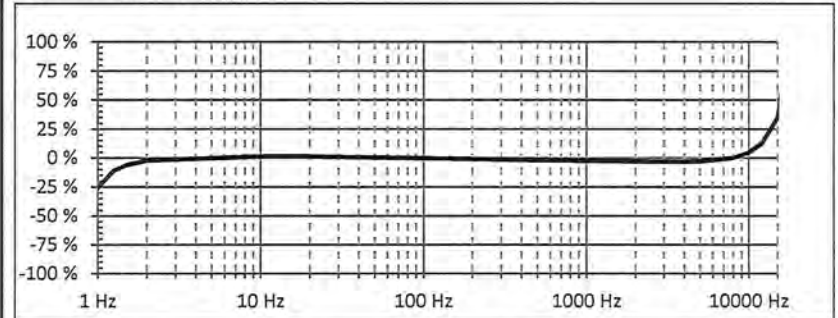
OPTIONAL ACCESSORIES:

- 080A121 Flat Surface Magnet Base
- 080A131 Curved Surface Magnet Base

PRODUCT DRAWING



Typical Frequency Response



In the interest of constant product improvement, specifications may change without notice.

All specifications are at room temperature unless otherwise specified.



Project Engineer: <i>ecc</i>	Product Manager: <i>MAP</i>	Mkt Team Leader: <i>[Signature]</i>	Spec Number: PS-0116
Date: <i>10/28/21</i>	Date: <i>10/28/21</i>	Date: <i>10/28/21</i>	