

PERFORMANCE

Sensitivity^{1,2,3} Channel A
Channel B
Measurement Range⁵ Channel A
Channel B
ADC Bandwidth (-3dB)
Frequency Range (± 5%)
Frequency Range (± 10%)³
Frequency Range (± 3 dB)³
Resonant Frequency
Mounted Resonance³
Mounted Resonance Amplification³
Broadband Resolution¹ (1 Hz to 10000 Hz)
Non-Linearity⁴
Transverse Sensitivity

ENGLISH	SI
4.00 % FSV/g	0.408 % FSV/m/s ²
7.96 % FSV/g	0.811 % FSV/m/s ²
± 20 g pk	± 196 m/s ² pk
± 10 g pk	± 98 m/s ² pk
9.3 cpm to 1374000 cpm	0.155 Hz to 22900 Hz
120 cpm to 480000 cpm	2 Hz to 8000 Hz
90 cpm to 660000 cpm	1.5 Hz to 11000 Hz
54 cpm to 900000 cpm	0.9 Hz to 15000 Hz
≥ 1500000 cpm	≥ 25000 Hz
1044000 cpm	17400 Hz
200%	200%
0.0025 g pk	0.0245 m/s ² pk
≤ 2 %	≤ 2 %
≤ 5 %	≤ 5 %

ENVIRONMENTAL

Overload Limit (Shock)
Temperature Range (Operating)
Temperature Coefficient

7000 g pk	68647 m/s ² pk
14 °F to 158 °F	-10 °C to +70 °C
0.10 % / °F	0.18 % / °C

ELECTRICAL

Communication Standard
Power Consumption³
Internal ADC
Supported Sample Rates

USB 2.0 Full Speed	USB 2.0 Full Speed
≤ 45 mA	≤ 45 mA
24 bit	24 bit
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
Size – Height
Weight
Mounting Thread
Mounting Torque
Sensing Element
Sensing Geometry
Housing Material
Sealing
Electrical Connector
Electrical Connection Position
Cable (Integral) Length

1.0 in	25.4 mm
2.6 in	66.0 mm
4.62 oz	131 gram
1/4-28 UNF	1/4-28 UNF
2 lbf ft to 5 lbf ft	2.7 N m to 6.8 N m
Piezoelectric Ceramic	Piezoelectric Ceramic
Shear	Shear
Stainless Steel	Stainless Steel
Welded Hermetic	Welded Hermetic
USB Type A Male	USB Type A Male
Top	Top
9.6 ft	2.9 m

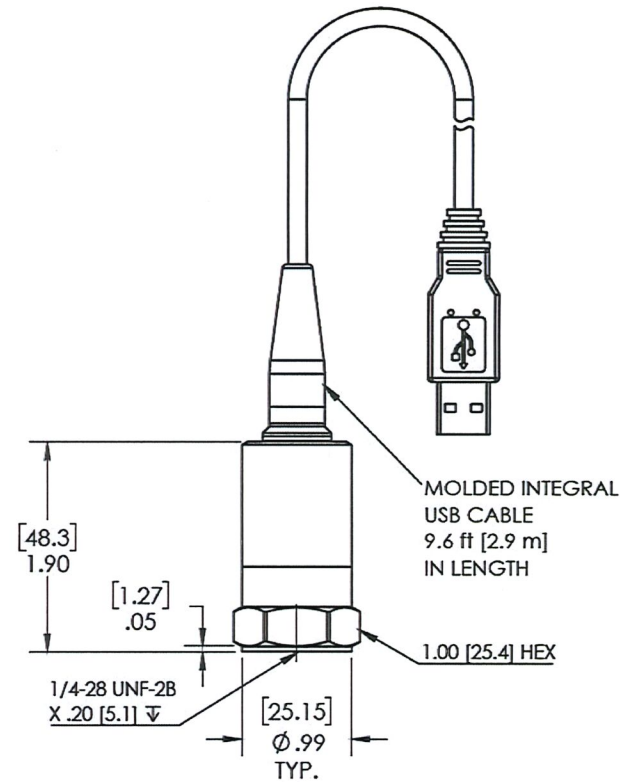
NOTES:

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

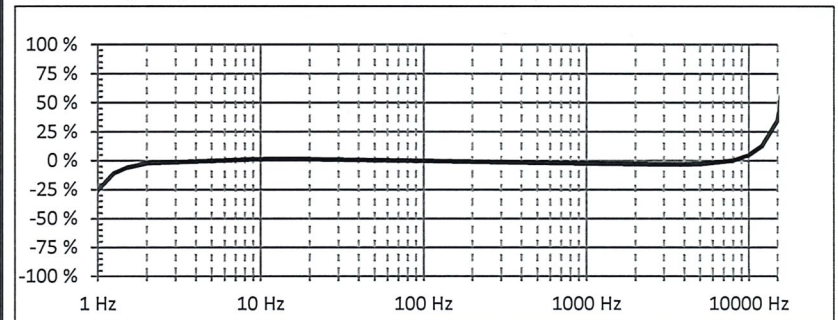
OPTIONAL ACCESSORIES:

- 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: ECC	Product Manager: MAP	Mkt Team Leader: JWP	Spec Number: PS-0116
Date: 10/23/21	Date: 10/28/21	Date: 10/28/21	