



## Premium Industrial Accelerometer

### Features

- 100 mV/g
- Welded hermetic seal
- 2-Pin MIL style connector

### Applications

- General Industrial
- Motors/Generators
- Pumps
- Gearboxes
- Rollers
- Experimental
- Fans/Cooling Towers
- Bearing Housings
- Compressors

### Operating Specifications

#### Dynamic

|                               |               |
|-------------------------------|---------------|
| Sensitivity @ 100Hz, ±5%      | 100 mV/g      |
| Frequency Range               |               |
| ±5%                           | 5 Hz – 10 kHz |
| ±10%                          | 4 Hz – 12 kHz |
| ±3dB                          | 2 Hz – 20 kHz |
| Turn-on Time                  | ≤ 0.5 seconds |
| Amplitude Range               | ±75 g peak    |
| Mounted Resonance (Nom.)      | 40 kHz        |
| Transverse Sensitivity (Nom.) | 5%            |
| Amplitude Linearity           | <1%           |

#### Electrical

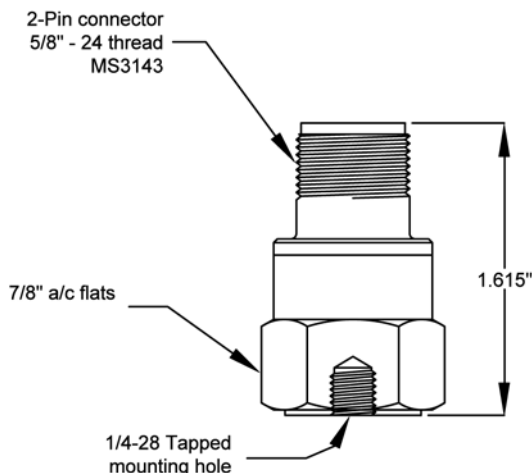
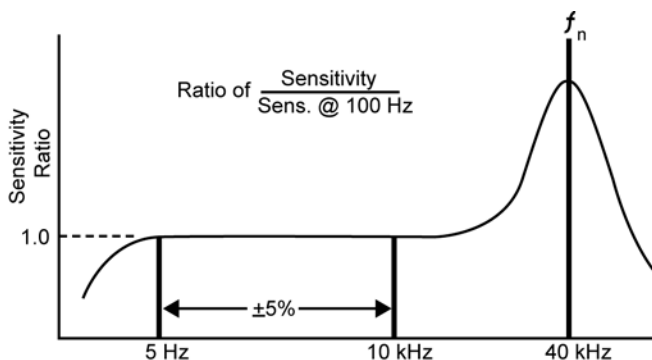
|                          |                         |
|--------------------------|-------------------------|
| Noise (typical)          |                         |
| Broadband                | 2.5 Hz to 20 kHz 350 µg |
| Spectral                 |                         |
| 10 Hz                    | 30 µg/√Hz               |
| 100 Hz                   | 8 µg/√Hz                |
| 1000 Hz                  | 3 µg/√Hz                |
| Output Impedance         | 100 Ω                   |
| Grounding                | Isolated                |
| Bias Volts               | 9 - 14 VDC              |
| Power Requirements       | 24-30 VDC               |
| Current Regulating Diode | 1-6 mA cc               |

#### Environmental

|                   |                             |
|-------------------|-----------------------------|
| Temperature Range | -40 to 250°F / -40 to 121°C |
| Base Strain (NOM) | .001 g peak/µstrain         |
| Shock Limit       | 5000 g peak                 |

#### Physical

|                        |                               |
|------------------------|-------------------------------|
| Physical Dimensions    | 1.515" h x .875" across flats |
| Weight                 | 68 grams                      |
| Case Material          | Type 316L stainless steel     |
| Design                 | Piezoelectric – ring shear    |
| Seal                   | Welded - Hermetic             |
| Mounting               | ¼-28 stud                     |
| Mounting Torque (Nom.) | 35 in - lb.                   |



### Ordering Information:

|   |         |
|---|---------|
| Model 6051 .....  | 9357259 |
| Power Supplies, 2 mA output, BNC/BNC, 24 VDC            |         |
| Model P5000 (rechargeable battery) .....                | 9356559 |
| Model LP24-1B (110 VAC Line Input) .....                | 9356120 |
| Cable, 2-Pin MIL/BNC 6' molded splashproof .....        | 9356686 |
| Cable, 2-Pin MIL/Pigtail 6' high temperature .....      | 9354084 |
| Cable, 2-Pin MIL/BNC 6' high temperature .....          | 9356381 |
| Magnetic holder, 16 lb (for curved/flat surfaces) ..... | 9356809 |

#### Sensors include:

NIST Traceable Calibration, ¼-28 Mounting Stud, User Manual and 1-Year Warranty

**For more information about Vibra-Metrics accelerometers, call us today at 609-716-4130, or visit us on-line at [www.vibrametrics.com](http://www.vibrametrics.com)**



195 Clarksville Road, Princeton Junction, NJ 08550 • Phone: 609-716-4130 • Fax: 609-716-0706  
Email: [sales@vibrametrics.com](mailto:sales@vibrametrics.com) • Internet: [www.vibrametrics.com](http://www.vibrametrics.com)

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