

# **Product Catalog 2004**



Your Predictive Maintenance Partner since 1972

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# Vibra • Metrics®

# Designing and manufacturing quality vibration sensing instrumentation for over 30 years.

## The Highest Quality Products, Services and Support

For over thirty years Vibra-Metrics has manufactured innovative and patented solutions for the predictive maintenance community, even in the most advanced or demanding applications. Since our inception, we have grown to offer hundreds of quality products including vibration accelerometers, data delivery systems and a comprehensive assortment of ancillary products. Additionally, we feature a broad array of engineering, design and support services for our customers. As always, these products and services are supported by the knowledge, experience and professional assistance that have kept Vibra-Metrics at the forefront of the vibration monitoring industry. No company understands better than Vibra-Metrics the value of predictive maintenance in improving uptime and throughput, and eliminating costly machinery downtime.

#### **An Efficient and Cost-Effective Partnership**

Vibra-Metrics' products are designed to measure accurately and repeatably, providing the most consistent data possible for trending, prediction and prevention. We manufacture products designed to locate machinery deficiencies before they become problems. Our Conditions-Based Monitoring Systems (CBMS) automatically collect data, giving our customers more time to focus on maximizing productivity by helping them avert unscheduled or unnecessary downtime as a result of machinery failure.

Through our customer-centered philosophy of designing unique solutions to suit individual needs, Vibra-Metrics will optimize the effectiveness of any PdM program. A partnership with Vibra-Metrics provides our customers with the opportunity to increase uptime and maximize the total return on investment of a company's equipment and assets. Vibra-Metrics commits to proactive PdM solutions and supports that commitment with continuous innovations and knowledgeable people, while maintaining a steady hand on the pulse of the PdM community.

#### The Most Advanced Technology in The Industry

Vibra-Metrics has introduced numerous innovations, several of which have been built into many accelerometer designs in use today, including:

- Isoshield<sup>™</sup> internal electrical isolation and Faraday shielding providing the highest level of EMI/FRI noise rejection
- Integral cable, composite molded sensors that resist the effects of chemicals, and other severe conditions
- Ultra-sensitive technology for seismic and structural applications, space vehicles and avionics
- Subminiature, high output, and low noise circuitry

As a direct result of these innovations, Vibra-Metrics' sensors perform better and last longer- even in the harshest, most demanding environments – than any other sensors available.

#### **Customer Service**

Vibra-Metrics, a Member of Mistras Holdings Group (www.mistrasholdings.com) is dedicated to providing our customers with timely assistance with any questions or concerns that arise. Please refer to the list below, so that we can direct your inquiry to the right person.

For assistance with hardware systems, including troubleshooting, technical support, or to order additional components for your system, please contact a Vibra-Metrics Product Manager at **609-716-4130** or email sales@vibrametrics.com.

To place, change, or cancel an order, or to check on the status of your order, please contact your authorized Vibra-Metrics sales representative at **609-716-4130**, or email sales@vibrametrics.com.

Returns or RMA's Research Inquiries: For equipment to be returned for repair, calibration, modification, etc, contact the Customer Service Dept. at our sister company **609-716-4000 x4044** or email customerservice@vibrametrics.com.

Other Questions or concerns: For any other questions or concerns, please contact a Vibra-Metrics sales representative **609-716-4130**, or email sales@vibrametrics.com.

#### **Affiliate Companies**

**PAC, Physical Acoustics Corporation** designs and manufactures acoustic emission sensors and acoustic emission measurement instruments. Visit their website at www.pacndt.com or call 609-716-4000.

**NDT Automation** is a complete source for ultrasonic test and inspection products and systems. A truly unique company, NDT Automation designs, produces and integrates virtually every major and all critical components of its immersion, gantry, custom and automated UT systems. From individual UT boards (Pulser/Receiver, A/D and motion control) to scanners through complete, fully integrated systems, NDT Automation is a single-source supplier providing full responsibility for all aspects of our product's performance and quality. Visit their website at www.ndtautomation.com or call 609-716-4123.

**QSL, Quality Services Laboratories** offers a wide variety of testing services for equipment and materials. Inspection techniques includes; Traditional Nondestructive Testing as GPR, PMI, MP, Radiography and Advance Testing such as Acoustic Emission, Automated UT, and ACFM. QSL also provides specialized solutions for Power Equipment Testing (power transformers, load tap changers, circuit breakers, cables), Transportation Vehicles (aerial lift, fire apparatus) and Pulp and Paper Industry; offering a broad range of services and support. Visit their website at www.qslplus.com.

**CONAM Inspection;** For over 40 years, CONAM has provided comprehensive quality control services to a broad range of industries. CONAM's Nondestructive Testing and Inspection group provides a complete range of inspection, training, QA/QC services and proprietary inspection software (PCMS). This expands CONAM's service range beyond any other quality services company. With nationwide laboratories employing over 500 technicians, our staff has experience with your industry's testing requirements; from nondestructive and mechanical testing through chemical, metallurgical and lubricant analysis.

#### **Partnership Warranty Policy**

Limited Partnership Warranty: Vibra-Metrics warrants that for a period of twelve (12) months from date of shipment (or 90 days for repairs), it will repair or at its option replace, any new accelerometer or electronic equipment which proves defective in materials or workmanship, or which does not conform to applicable drawings and specifications approved by the manufacturer. Cables, connectors, magnets, adapters, and machined parts are similarly warranted for a period of 90 days from date of shipment. Series 7002 accelerometers are warranted for a period of twenty-four (24) months from date of shipment. All repairs and replacements shall be F.O.B. factory. All claims must be made in writing to the manufacturer. In no event and under no circumstance shall manufacturer be liable for (a) damages in shipment; (b) failures or damage due to misuse, abuse, improper installation or abnormal conditions of temperature, dirt, or corrosives; (c) failures due to operation, intentional or otherwise, beyond rated capacities, and (d) expenses for removal, inspection, transportation, repair or rework. Nor shall manufacturer ever be liable for consequential and incidental damages, or in any amount greater than the purchase price of this apparatus.

This Partnership Warranty is in LIEU OF OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING (BUT NOT LIMITED TO) ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE TERMS OF THIS PARTNERSHIP WARRANTY CONSTITUTE ANY BUYER'S AND/OR USER'S SOLE AND EXCLUSIVE REMEDY, AND ARE IN LIEU OF ANY RIGHT TO RECOVER FOR NEGLIGENCE, BREACH OF PARTNERSHIP WARRANTY, STRICT TORT LIABILITY OR UPON ANY OTHER THEORY. Any legal proceedings arising out of the sale or use of this apparatus must be commenced within eighteen (18) months of the date of shipment.

LIFETIME PARTNERSHIP WARRANTY: In addition to the provisions of the Limited Partnership Warranty as described above, Vibra-Metrics will repair or replace at no charge {except shipping and handling} any 8002 Series accelerometer purchased after October 1, 2001 for a period of two years from the date of shipment. For Years 3-5 Vibra-Metrics will repair or replace the accelerometer for half the current price of a new unit. For Year 6 and beyond, Vibra-Metrics will repair/replace for 70% of the current price of a new unit. Determination to repair/replace is at Vibra-Metrics option. Customer is responsible for obtaining return authorization number from Vibra-Metrics and shipping the non-operable unit to Vibra-Metrics prior to replacement. Chemical resistance for 8002 Series is warranted for chemicals, temperatures, & environmental conditions listed in AN130. For others, contact VMI in writing prior to installation.

Please read the *Accelerometer Installation Guide* or the appropriate *Operators Manual* thoroughly regarding equipment installation, operation, and maintenance. Should you require additional assistance in servicing this equipment, please contact the Vibra-Metrics factory directly. Returned products will not be accepted at the factory without a Return Authorization (RMA) number, obtainable from the factory (609) 716-4000.

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#### **Model Number Prefix/Suffix Key**

- **CBM** Condition Based Maintenance
- **LP -** Line Powered (power supply)
- **P** Battery Powered (power supply)
- **SB -** Switch Box
- **VM** Vibration Monitor
- **A** Adhesive Mount, or Armored cable
- **B** High Shock Version or BNC termination
- C Century series extended temperature capability
- CFM Certified intrinsically safe and Century series extended temperature capability
- **FM** Certified intrinsically safe
- **HG** High g level
- **HS** High sensitivity for low g levels
- **P** Pigtail termination
- **T** Top exit integral cable
- LB Low Bias Voltage Unit

#### **Custom Models**

The products shown in this catalog represent our standard products. Vibra-Metrics also custom manufactures sensors based on your specific needs. V-M has designed specialty sensors for high temperatures, special high g filtered units, as well as ultra sensitive units for seismic monitoring applications. Contact our sales department for more information, 609-716-4130, or sales@vibrametrics.com.



# **Model 1000 Series**



## Miniature High Frequency Accelerometer

#### **Features**

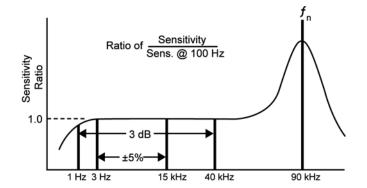
- 10 mV/g and high shock version 1.5 mV/g
- Small size/mass
- Integral coaxial strain-relieved cable
- Broad frequency range

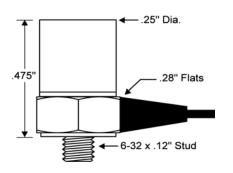
#### **Applications**

- Dry Industrial
  - зитат СХР
- Motors/Generators
- riotors, dericiators
- Coors/Pooring
- Gears/Bearings
- Rollers

Pumps

- Experimental
- Aerospace
- Military
- Machining Centers
- Impact Testing (1000B)





#### **Operating Specifications**

#### **Dynamic**

Sensitivity @ 100 Hz, ±5% 1000, 1000A 10 mV/g 1.02 mV/(m/s<sup>2</sup>) 1000B  $0.15 \, \text{mV/(m/s}^2)$ 1.5 mV/g Frequency Range 3 Hz - 15 kHz 2 Hz - 18 kHz 1 Hz - 40 kHz ±5% ±10% ±3 dB Turn-on Time <5 seconds Amplitude Range ±500 g ±2500 g 1000, 1000A 1000B Mounted Resonance >90 kHz Transverse Sensitivity <5%

#### **Electrical**

 $\begin{array}{c|cccc} \text{Noise (typical)} & & & \\ & \text{Broadband} & 2.5 \text{ Hz to 25 kHz} & 1500 \text{ } \mu\text{g rms} \\ & \text{Spectral} & 10 \text{ Hz} & 100 \text{ } \mu\text{g}/\!\!\!\! / \text{Hz} \\ & 100 \text{ Hz} & 25 \text{ } \mu\text{g}/\!\!\!\! / \text{Hz} \\ & 1000 \text{ Hz} & 10 \text{ } \mu\text{g}/\!\!\!\! / \text{Hz} \\ \\ \text{Output Impedance} & <1000 \text{ } \Omega \\ \end{array}$ 

Isolation Isolated, >100 Meg  $\Omega$ 

Bias Volts (nominal) 7 VDC

Power Requirements 15-30 VDC @ 2-10 mA cc

#### **Environmental**

Temperature Range -40 to  $250^{\circ}F$  -40 to  $121^{\circ}C$  Base Strain .005 g peak/ $\mu$ strain Thermal Shock 4 g/°C Shock Limit 5,000 g

2 grams

.45" h x .28" flats (1.1 x .7 cm)

# Physical Physical Dimensions

Weight

Case Material Titanium

Design Isolated Compression

Seal Epoxy

Mounting

1000, 1000B 6-32 integral stud

1000A Adhesive

Mounting Torque 10 in-lb (1.1 N-m)

Cable/Connector 6' integral cable / 10-32

#### **Ordering Information:**

- 1
Model 1000 (Isolated, 6-32 stud)
Model 1000A (Isolated, 110 Stud)
Power Supplies, 2 mA output
10-32/BNC connectors Model P1000, battery, 15 VDC
BNC/BNC connectors
Model P5000, rechargeable battery, 24 VDC 9356559 BNC/10-32 adapter
Cable, Extension, 10-32(F)/10-32(M) 9354054
Sensors include: NIST Traceable Calibration, 6' Integral Cable Assembly, Thermal Boot, User Manual, 1-Year Warranty





# Model 1018/1019



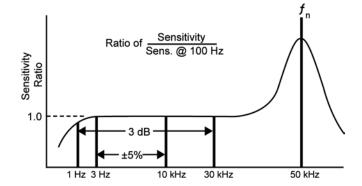
## High Frequency, Low Noise Accelerometers

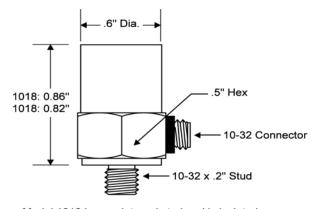
#### **Features**

- 10 mV/g
- Compact size
- Broad frequency range

#### **Applications**

- Industrial
- Experimental
- Motors/Generators
- Rollers
- Lab Shakers
- Compressors
- Gears/Bearings





Model 1018 has an integral stud and is isolated. Model 1019 has a removable stud and is case grounded.

#### **Operating Specifications**

**Dynamic** 

Sensitivity @ 100 Hz, ±5% 10 mV/g  $1.02 \, \text{mV/(m/s}^2)$ Frequency Range 3 Hz - 10 kHz 2 Hz - 12 kHz 1 Hz - 30 kHz ±5% ±10% ±3 dB Turn-on Time <5 seconds Amplitude Range ±500 g Mounted Resonance >50 kHz Transverse Sensitivity <5% Amplitude Linearity <2%

**Electrical** 

Noise (typical) Broadband 2.5 Hz to 25 kHz 1500  $\mu g$  (rms) Spectral 10 Hz 100  $\mu g/\sqrt{Hz}$  100 Hz 25  $\mu g/\sqrt{Hz}$  1000 Hz 10  $\mu g/\sqrt{Hz}$  0utput Impedance 1000  $\Omega$  Isolation 1018 Isolated, >100 Meg  $\Omega$  1019 Case Grounded

1019 Case Grounded
Bias Volts (nominal) 7 VDC
Power Requirements 15-30 VDC
Current Regulating Diode 1-6 mA cc

**Environmental** 

Temperature Range -40 to 250°F -40 to 121°C Base Strain .003 g peak/µstrain Thermal Shock 3 g/°C

Shock Limit 5000 g

**Physical** 

**Physical Dimensions** .86" h x .5" hex (2.2 x 1.3 cm) .82" h x .5" hex (2.1 x 1.3 cm) 1018 1019 .56 oz / 16 grams Weight Case Material 303 stainless steel Design Compression Seal Splashproof epoxy Mounting 1018 10-32 integral stúd 1019 10-32 removable stud Mounting Torque 20 in-lb (2.2 N-m)

side 10-32

#### **Ordering Information:**

Model 1018	9353173
Model 1019	9353174
Power Supplies, 2 mA output, BNC/BNC	
Model P1000B, battery, 15 VDC	9353528
Model LP24-1B, 110 VAC line input, 24 VDC	9356120
Model P5000, rechargeable battery, 24 VDC	9356559
Cable, 10-32(M)/BNC(M), 6', 15' std. lengths	9353442
Magnetic holder, 16 lb holding force, 10-32	9356816
Magnetic holder, 35 lb holding force, 10-32	9353449
Sensors include:	
NIST Traceable Calibration, Mounting Stud, User Ma	anual,
1-Year Warranty	





# **Model 1020S**



# High Output Low Noise Accelerometer

#### **Features**

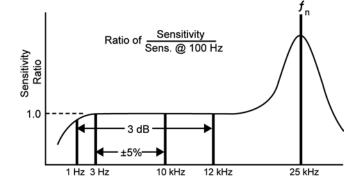
- 100 mV/g
- Low noise
- Broad frequency range

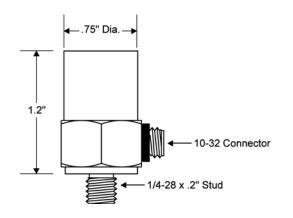
#### **Applications**

- General Industrial
- Experimental
- Motors/Generators
- Fans/Cooling Towers

Pumps

- Bearing Housings
- Gearboxes
- Compressors
- Rollers





#### **Operating Specifications**

#### **Dynamic**

Sensitivity @ 100 Hz, ±5% 100 mV/g  $10.2 \, \text{mV/(m/s}^2)$ Frequency Range ±5% 3 Hz - 10 kHz 2 Hz – 11 kHz 1 Hz – 12 kHz ±10% ±3 dB Turn-on Time <5 seconds Amplitude Range ±50 g Mounted Resonance 25 kHz Transverse Sensitivity <5%

#### **Electrical**

Noise (typical)

Broadband 2.5 Hz to 25 kHz 250  $\mu$ g rms Spectral 10 Hz 14  $\mu$ g/ $\nu$ Hz 100 Hz 4  $\mu$ g/ $\nu$ Hz 1000 Hz 3  $\mu$ g/ $\nu$ Hz 0utput Impedance 1000  $\mu$ C

Isolation Isolated, >100 Meg  $\Omega$ 

Bias Volts (nominal) 7 VDC
Power Requirements 15-30 VDC
Current Regulating Diode 1-6 mA cc

#### **Environmental**

Temperature Range -40 to 250°F -40 to 121°C
Base Strain .008 g peak/µstrain

Thermal Shock .5 g/°C Shock Limit 5000 g

#### **Physical**

Physical Dimensions 1.2'' h x .75'' hex base (3 x 1.9. cm) Weight 1.2 oz / 35 grams Case Material Titanium

Design Isolated compression
Seal Splashproof epoxy
Mounting ½-28 removable stud
Mounting Torque 35 in-lb (3.9 N-m)
Connector Side 10-32 coaxial

#### **Ordering Information:**

User Manual, 1-Year Warranty

Model 10205 9353205
Power Supplies, 2 mA output, BNC/BNC
Model P1000B, battery, 15 VDC 9353528
Model LP24-1B, 110 VAC line input, 24 VDC 9356120
Model P5000, rechargeable battery, 24 VDC 9356559
Cable, 10-32(M)/BNC(M), 6', 15' std. lengths 9353442
Magnetic holder, 16 lb holding force, 1/4-28 9356809
Magnetic holder, 35 lb holding force, 1/4-28 9353448
Sensors include:

NIST Traceable Calibration, Mounting Stud, Thermal Boot,

For more information about Vibra-Metrics accelerometers, call us today



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at 609-716-4130, or visit us on-line at www.vibrametrics.com



# Model 1024-4



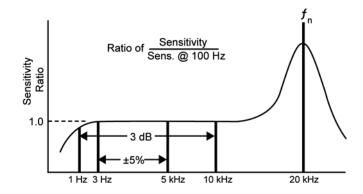
#### **Underwater Accelerometer**

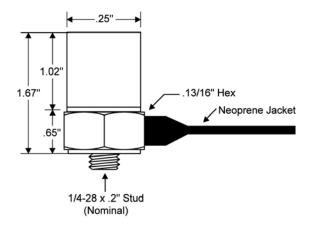
#### **Features**

- 100 mV/q
- Superior sealing for underwater operation
- Integral underwater rated cable
- Titanium construction resists galvanic corrosion
- ISOSHIELD internal electrical shielding

#### Applications

- Seawater Exposure
   Underwater Motors
- Deep Draft Pumps
- Experimental





#### **Operating Specifications**

#### **Dynamic**

Sensitivity @ 100 Hz, ±5% 100 mV/g  $10.2 \, \text{mV/(m/s}^2)$ Frequency Range ±5% 3 Hz – 5 kHz 2 Hz - 8 kHz ±10% 1 Hz - 10 kHz ±3 dB Turn-on Time <1.5 seconds Amplitude Range ±60 g >20 kHz Mounted Resonance Transverse Sensitivity <5%

#### **Electrical**

Noise (typical)

Broadband 2.5 Hz to 25 kHz 250 µg rms Spectral 10 Hz 12 μg/√Hz 100 Hz 5 μg/√Hz 2 μg/√Hz 1000 Hz

Output Impedance <100 Ω

Isolation Isolated, >100 Meg  $\Omega$ Noise Rejection (EMI/RFI) >80dB, IsoShield™

Bias Volts (nominal) 10 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 .005 g peak/µstrain

.1 g/°C Thermal Shock Shock Limit 5000 g 1000 psi Pressure Limit

#### **Physical**

**Physical Dimensions** 1.67" h x .82" hex base

 $(4.2 \times 2.1 \text{ cm})$ Weight (without cable) 60 grams Case Material Titanium Design Compression Seal Welded

Mounting 1/4-28 removable stud Mounting Torque 35 in-lb (40 cm-kg) Cable/Connector 15' Integral Neoprene cable

to pigtail

#### Ordering Information:

Model 1024-4 ...... 9354291

Power Supplies, 2 mA output, BNC/BNC

Magnetic holder, 16 lb holding force, 1/4-28 ....... 9356809 Magnetic holder, 35 lb holding force, 1/4-28 ...... 9353448

#### Sensors include:

NIST Traceable Calibration, 15' Integral Cable Assembly, Mounting Stud, User Manual, 1-Year Warranty







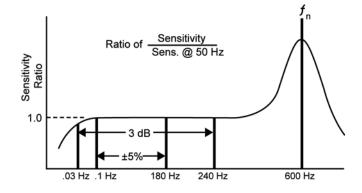
## High Output Seismic Accelerometer

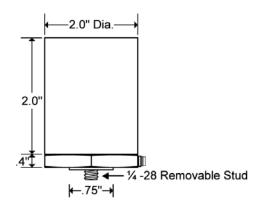
#### **Features**

- 5000 mV/g minimum output
- Ultra-low noise
- Ultra-low frequency
- Removeable ¼-28 mounting stud

#### **Applications**

- Seismic/Mining
- Wafer Fabrication
- Building/Structural
- Precision Printing
- Bridges
- Microscopes
- Experimental





#### **Operating Specifications**

#### **Dynamic**

Sensitivity, minimum @ 50 Hz 5,000 mV/g  $510 \text{ mV/(m/s}^2)$ Frequency Range ±5% .1 Hz - 180 Hz ±10% .07 Hz - 200 Hz .03 Hz - 240 Hz ±3 dB Turn-on Time <120 seconds Amplitude Range  $\pm 0.7 a$ 600 Hz Mounted Resonance Transverse Sensitivity <5%

#### **Electrical**

Noise

Isolation Isolated, >100 Meg  $\Omega$ 

Bias Volts (nominal) 7 VDC
Power Requirements 15-30 VDC
Current Regulating Diode 1-6 mA cc

#### **Environmental**

Temperature Range -40 to 250°F -40 to 121°C Base Strain .001 g peak/µstrain

Shock Limit 80 c

#### **Physical**

Physical Dimensions  $2.5'' \text{ h} \times 2'' \text{ flats}$   $(6.4 \times 5.1 \text{ cm})$  Weight 430 grams

Case Material Hard anodized aluminum Design Proprietary Mechanical

Seal Epoxy

Mounting %-28 removable stud
Mounting Torque 35 in-lb (3.9 N-m)
Connector Side coaxial (SMA)

#### **Ordering Information:**

Model P1000B, battery powered, 15 VDC ....... 9353528 Model LP24-1B, 110 VAC line input, 24 VDC ..... 9356120 Model P5000, rechargeable battery, 24 VDC ..... 9356559

Cable, SMA/BNC, 6' ...... 9354049

#### Sensors include:

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





# Model 1136 Series=



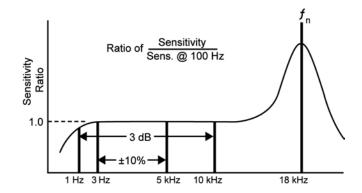
# High Reliability Industrial Accelerometer

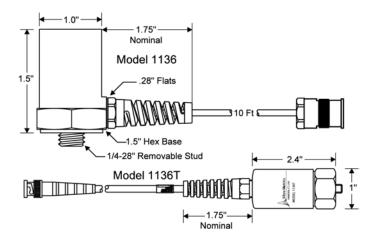
#### Features

- Integral strain-relieved cable with top or side exit configuration
- Low profile design
- Thermal boot

## **Applications**

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





#### **Operating Specifications**

**Dynamic** 

**Electrical** 

Noise (typical)

Isolation Isolated, >100 Meg  $\Omega$ 

Bias Volts (nominal) 12 VDC
Power Requirements 24-30 VDC
Current Regulating Diode 1-6 mA cc

**Environmental** 

Temperature Range -10 to 200°F -20 to 95°C Base Strain .008 g peak/µstrain Shock Limit 5000 g

**Physical** 

Physical Dim. 1136 1.5" h x 1" hex  $(3.8 \times 2.5 \text{ cm})$ 1136T 2.25" h x 1" hex  $(5.8 \times 2.5 \text{ cm})$ Weight 1136 1.7 oz / 50 grams plus cable 1136T 3.2 oz / 90 grams plus cable Case Material 6061 AL with AL-O<sub>2</sub> chemical resistant coating

Design Isolated compression
Seal Waterproof

Mounting %-28 removable stud Mounting Torque 35 in-lb (3.9 N-m)

## **Ordering Information:**

Model 1136 (Pigtail, side) 93563/8	
Model 1136B (BNC, side)	
Model 1136T (Pigtail, top)	
Model 1136TB (BNC, top) 9356574	
Model 1136FM (Pigtail, side, FM approved) 9356825	
Model 1136BFM (BNC, side, FM approved) 9356871	
Model 1136TBFM (BNC, top, FM approved) 9357064	
Power Supplies, 2 mA output, BNC/BNC	
Model P1000B, battery, 15 VDC 9353528	
Model LP24-1B, 110 VAC line input, 24 VDC 9356120	
Model P5000, rechargeable battery, 24 VDC 9356559	
Magnetic holder, 16 lb holding force 9356809	
Magnetic holder, 35 lb holding force 9353448	
Sensors include:	
NIST Traceable Calibration 10' Integral Cable Assembly	

Mounting Stud, Thermal Boot, User Manual, 1-Year Warranty





# Model 1800 & 1801



## General Purpose Industrial Accelerometers

#### **Features**

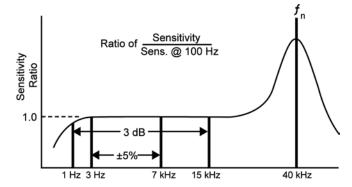
- 100 mV/q
- Integral cable
- Waterproof to 100 feet

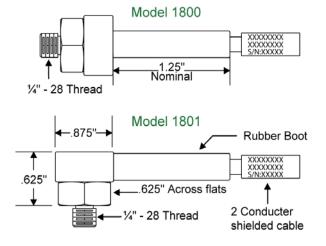
#### **Applications**

- General Industrial
- Experimental
- Motors/Generators
- Fans/Cooling Towers
- Pumps

- Bearing Housings
- Gearboxes
- Compressors

Rollers





#### **Operating Specifications**

#### **Dynamic**

100 mV/g	$10.2  \text{mV/(m/s}^2)$
· -	
3 Hz – 7 kH	
2 Hz - 10 k	:Hz
1 Hz - 15 k	:Hz
<2.5 secon	ds
±75 g	
>40 kHz	
<5%	
<2%	
	3 Hz - 7 kH 2 Hz - 10 k 1 Hz - 15 k ≤2.5 secon ±75 g >40 kHz <5%

#### **Electrical**

Noise (typical)		
Broadband	1 Hz to 10 kHz	50 μg rms
Spectral	10 Hz	10 µg/√Hz
•	100 Hz	2.7 μg/√Hz
	1000 Hz	1.0 µg/√Hz
Output Impedance	ce	<150 Ω
Isolation		Isolated, >100

 $0 \text{ Meg } \Omega$ Iso Bias Volts (nominal) 10 VDC 18-28 VDC @ 1-6 mA cc Power Requirements

#### **Environmental**

-65 to 250°F -54 to 1 <.00007 g peak/µstrain Temperature Range -54 to 121°C Base Strain 7000 g Shock Limit

#### **Physical**

Physical Dim. 2.25" h x 13/16" diameter 1800 (5.7 x 2.1 cm) .625" h x .812" across flats 1801  $(1.6 \times 1.6 cm)$ Weight 1.1 oz / 30 grams plus cable Case Material Stainless steel Design Isolated shear Seal **Epoxy** Mounting 1/4-28 stud Mounting Torque 35 in-lb (3.9 N-m)

Teflon jacketed twisted pair

9357150

#### Ordering Information: Model 1800BW (BNC)

ı	Model 1000DW (DNC)
I	Model 1800PW (Pigtail) 9357154
I	Model 1800BA (BNC, armored) 9357149
I	Model 1800PA (Pigtail, armored)
I	Model 1801BW (BNC) 9357152
I	Model 1801PW (Pigtail) 9357156
I	Model 1801BA (BNC, armored) 9357151
I	Model 1801PA (Pigtail, armored) 9357155
I	Power Supplies, 2.2 mA output, BNC/BNC, 24 Vdc
I	Model P5000, 24 Vdc (Ni-Cad) 9356559
I	Model LP24-1B, 110 vac line input, 24 Vdc 9356120
I	Magnetic holder, 16 lb holding force, 1/4-28 9356809
I	Magnetic holder, 35 lb holding force, 1/4-28 9353448
I	, , ,
ı	Sensors include:

NIST Traceable Calibration, 15' Cable Assembly,

1/4-20 Mounting Stud, User Manual, 1-Year Warranty

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# **Model CBM-2000**



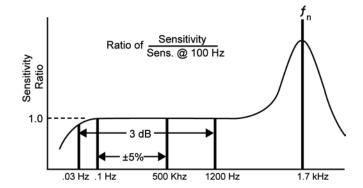
## Accelerometer for Large Outdoor Structures

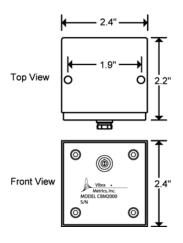
#### **Features**

- 1500 mV/g
- Low, accurate frequency response
- Rugged construction for outdoor use
- Splashproof
- Low impedance signal suitable for long cable lengths (up to 1000 ft)

#### **Applications**

- Bridges
- Buildinas
- Low speed rollers/ bearings





#### **Operating Specifications**

#### **Dynamic**

#### **Electrical**

Noise (typical)

Broadband 2.5 Hz to 25 k

Broadband 2.5 Hz to 25 kHz 50  $\mu$ g rms Spectral 10 Hz 1.0  $\mu$ g/ $\sqrt{Hz}$ 100 Hz 0.2  $\mu$ g/ $\sqrt{Hz}$ 1000 Hz 0.08  $\mu$ g/ $\sqrt{Hz}$ 

Output Impedance  $1000 \Omega$ 

Isolation Isolated, > 100 Meg  $\Omega$ 

Bias Volts (nominal) 7 VDC
Power Requirements 15-30 Vdc
Current Regulating Diode 1-6 mA cc

#### **Environmental**

Temperature Range -40 to 250°F / -40 to 121°C Base Strain .0003 g peak/µstrain

Shock Limit 50 q

#### **Physical**

 $\begin{array}{lll} \mbox{Physical Dimensions} & 2.44'' \ \mbox{h x } 2.25'' \ \mbox{w x } 2.25'' \ \mbox{d} \\ & (6.2 \times 5.7 \times 5.7 \ \mbox{cm}) \\ \mbox{Weight} & 44 \ \mbox{oz} \ \ / \ 1250 \ \mbox{grams} \\ \mbox{Case Material} & 303 \ \mbox{stainless steel} \\ \mbox{Design} & \mbox{Isolated Shear} \\ \mbox{Seal} & \mbox{Splashproof} \end{array}$ 

Mounting (2) 10-32 throughbolts
Mounting Torque 20 in-lb (2.2 N-m)
Connector 2-Pin, water-tight

#### **Ordering Information:**







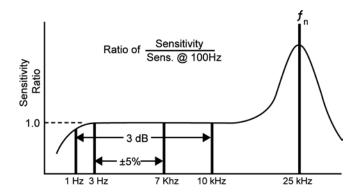
## Miniature Triaxial Accelerometer

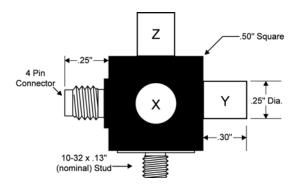
#### **Features**

- 10 mV/g per axis
- Exceptionally low 10 micro-volt noise floor
- .35 oz / 10 gram total weight
- Titanium construction

#### **Applications**

- For single point monitoring in three axis
- Any location where small size and weight are important
- Aircraft, space vehicles, laboratories





#### **Operating Specifications (per axis)**

#### **Dynamic**

Sensitivity @ 100 Hz, ±5% 10 mV/g 1.02 mV /(m/s<sup>2</sup>) Frequency Range ±5% 3 Hz – 7 kHz 2 Hz - 8 kHz ±10% 1 Hz - 10 kHz ±3 dB Turn-on Time (2% of final bias) <5 seconds Amplitude Range (at 72°F) ±500 g Mounted Resonance >25 kHz Transverse Sensitivity <5%

#### **Electrical**

Noise (typical)

Output Impedance  $1000~\Omega$  Isolation  $Isolated,~>100~Meg~\Omega$ 

Noise Rejection (EMI/RFI) >52 dB
Bias Volts (nominal) 7 VDC
Power Requirements 15-30 VDC
Current Regulating Diode 1-6 mA cc

#### **Environmental**

Temperature Range -40 to 250°F / -40 to 121°C Base Strain <.005 g peak/µstrain

Shock Limit 5000 g

#### **Physical**

 $\begin{array}{ll} \mbox{Physical Dimensions} & .8'' \ \mbox{h x } .8'' \mbox{w x } 1.05'' \mbox{d} \\ 2 \ \mbox{cm x 2 cm x 2.7 cm} \\ \mbox{Weight} & .35 \ \mbox{oz / 10 grams} \\ \end{array}$ 

Case Material Titanium

Design Isolated Compression
Seal Splashproof epoxy
Mounting 10-32 removable stud
Mounting Torque 20 in-lb (2.2 N-m)
Connector Side 4-Pin

#### **Ordering Information:**

Magnetic holder, 16 lb holding force, 10-32........... 9356816 Magnetic holder, 35 lb holding force, 10-32.......... 9353449

#### Sensors include:

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







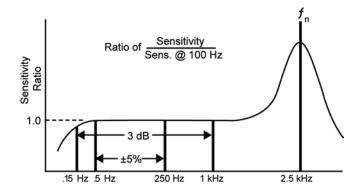
# High Output Shear Design Accelerometer

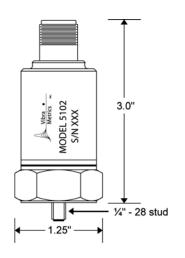
#### **Features**

- 500 mV/q
- Splashproof
- 2-Pin MIL style connector
- Shear mode design
- ISOSHIELD Internal electrical isolation

#### **Applications**

- Low RPM rollers/machinery
- Low amplitude vibration values
- Where low noise is desireable





#### **Operating Specifications**

#### **Dynamic**

Sensitivity @ 100 Hz, ±5% 500 mV/g 51 mV (m/s2) Frequency Range .5 Hz - 250 Hz .3 Hz - 400 Hz ±5% ±10% .15 Hz - 1 kHz ±3 dB Turn-on Time (2% of final bias) <10 seconds Amplitude Range (at 72°F) ±10 g Mounted Resonance (nominal) 2.5 kHz Transverse Sensitivity <5%

#### **Electrical**

Noise (typical)
Broadband 2.5 Hz to 25 kHz 40 µg rms

Spectral 10 Hz 1.0  $\mu g/\sqrt{Hz}$  100 Hz .35  $\mu g/\sqrt{Hz}$  1000 Hz .065  $\mu g/\sqrt{Hz}$  0utput Impedance 1000 Ω

Grounding Isolated,  $> 100 \text{ Meg } \Omega$ 

Noise Rejection (EMI/RFI) >52 dB
Bias Volts (nominal) 7 VDC
Power Requirements 15-30 VDC
Current Regulating Diode 1-6 mA cc

#### **Environmental**

Temperature Range -40 to 250°F / -40 to 121°C Base Strain .005 g peak/µstrain

Shock Limit 500 g

#### **Physical**

 $\begin{array}{lll} \mbox{Physical Dimensions} & 3'' \mbox{ h x 1.25'' diameter} \\ & (7.6 \mbox{ x 3.2 cm}) \\ \mbox{Weight} & 10.7 \mbox{ oz } / 303 \mbox{ grams} \\ \mbox{Case Material} & 303 \mbox{ stainless steel} \\ \mbox{Design} & \mbox{Isolated shear} \\ \mbox{Seal} & \mbox{Welded} \\ \end{array}$ 

Mounting%-28 removable studMounting Torque35 in-lb (40 cm-kg)Cable/ConnectorTop 2-Pin MIL style

#### **Ordering Information:**

Model 5102 9356875
Power Supplies, 2 mA output, BNC/BNC  Model P1000B, battery, 15 VDC 9353528  Model LP24-1B, 110 VAC line input, 24 VDC 9356120  Model P5000, rechargeable battery, 24 VDC 9356559
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 holding force, 1/4-28 9356809 Magnetic holder, 35 lb holding force, 1/4-28 9353448
Sensors include:

NIST Traceable Calibration, Mounting Stud, User Manual and

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1-Year Warranty



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## Standard Triaxial Accelerometer

#### **Features**

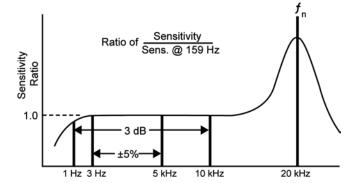
- 100 mV/g per axis
- Rugged aluminum construction
- Center throughbolt mounting

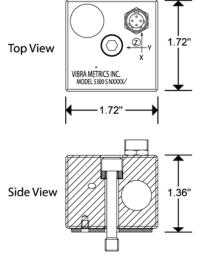
#### **Applications**

- Gearboxes
- Experimental
- General Industrial
- Military
- Motors/Generators
- Fans/Cooling Towers

Pumps

- Bearing Housings
- Rollers
- Compressors





#### **Operating Specifications (per axis)**

Sensitivity @ 100 Hz, ±5% 100 mV/g 10.2 mV (m/s<sup>2</sup>) Frequency Range ±5% 3 Hz – 5 kHz 2 Hz – 7 kHz ±10% 1 Hz - 10 kHz ±3 dB Turn-on Time (2% of final bias) <2 seconds Amplitude Range (at 72°F) ±80 g >20 kHz Mounted Resonance Transverse Sensitivity <5%

#### **Electrical**

Noise (typical) Broadband 2.5 Hz to 25 kHz 250 μg 12 μg/√Hz Spectral 10 Hz 100 Hz 5 μg/√Hz 1000 Hz 2 μg/√Hz Output Impedance  $100 \Omega$ Isolation Isolated,  $>100 \text{ Meg } \Omega$ 

Noise Rejection (EMI/RFI) >52 dB Bias Volts (nominal) 12 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 <.001 g peak/µstrain

Shock Limit 5000 a

#### **Physical**

**Physical Dimensions** 1.36" h x 1.72" w x 1.72" d (3.5 x 4.4 x 4.4 cm) 7 oz / 200 grams Weight Case Material Hard anodized aluminum Design Isolated compression Splashproof epoxy Seal Mounting 1/4-28 center throughbolt 35 in-lb (3.9 N-m) Mounting Torque Top 4-Pin Connector

#### Ordering Information:

Model 5300 ...... 9356320 Power Supplies, 2.2 mA output, BNC/BNC Model LP24-3B, 110 vac line input, 24 Vdc ...... 9356460 Model P5000, 24 Vdc (Ni-Cad) (single channel).. 9353528 Cable, 4-Pin/(3) BNC ...... 9354086 Sensors include: NIST Traceable Calibration, Mounting Stud, User Manual and 1-Year Warranty





# Model 6036/FM/LB



## Premium Industrial Accelerometer

#### **Features**

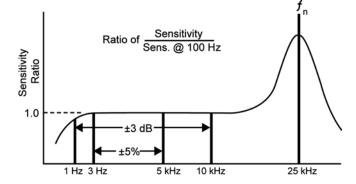
- 100 mV/g
- Splashproof
- ISOSHIELD internal electrical shielding
- Optional intinsically safe FM certification
- Optional 7 VDC low bias

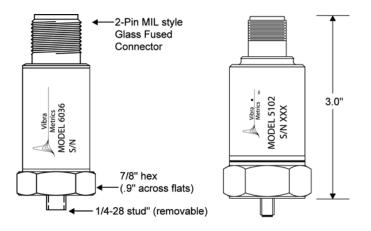
#### **Applications**

- General Industrial
- Experimental
- Motors/Generators
- Fans/Cooling Towers
- Pumps

- Bearing Housings
- Gearboxes
- Compressors

Rollers





#### **Operating Specifications**

#### **Dynamic**

Sensitivity @ 100 Hz, ±5% 100 mV/g 10.2 mV/(m/s<sup>2</sup>) Frequency Range ±5% 3 Hz - 5 kHz ±10% 2 Hz - 7 kHz 1 Hz - 10 kHz ±3 dB Turn-on Time (2% of final bias) <2 seconds Amplitude Range (at 72°F) 6036/6036FM ±75 g ±30 g 6036LB Mounted Resonance >25 kHz Transverse Sensitivity <5%

#### **Electrical**

 $\begin{array}{ccc} \text{Noise (typical)} \\ \text{Broadband} & 2.5 \text{ Hz to 25 kHz} & 250 \text{ }\mu\text{g rms} \\ \text{Spectral} & 10 \text{ Hz} & 12 \text{ }\mu\text{g}/\sqrt{\text{Hz}} \\ & 100 \text{ Hz} & 5 \text{ }\mu\text{g}/\sqrt{\text{Hz}} \\ & 1000 \text{ Hz} & 2 \text{ }\mu\text{g}/\sqrt{\text{Hz}} \\ \text{Output Impedance} & <100 \text{ }\Omega \\ \end{array}$ 

 $\begin{array}{ll} \text{Solation} & \text{Isolated, } > 100 \text{ Meg } \Omega \\ \text{Noise Rejection (EMI/RFI)} & \text{>80 dB, Isoshield} \\ \end{array}$ 

Bias Volts (nominal) 12 VDC

Power Requirements 24-30 VDC @ 1-6 mA cc

#### **Environmental**

1-Year Warranty

Temperature Range -40 to 250°F / -40 to 121°C Base Strain .003 g peak/µstrain Shock Limit 5000 g

#### **Physical**

**Physical Dimensions** 2.3" h x .87" hex base  $(5.8 \times 2.2 \text{ cm})$ Weight 3.2 oz / 90 grams Case Material 304 stainless steel Isolated compression Design Seal Welded Mounting 1/4-28 removable stud Mounting Torque 35 in-lb (3.9 N-m) Cable/Connector 2-Pin MIL style, glass fused

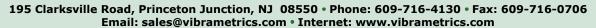
#### **Ordering Information:**

Model 6036	9330289
Model 6036FM	9356826
Model 6036LB	9356939
Power Supplies, 2 mA output, BNC/BNC	
Model P1000B, battery, 15 VDC	9353528
Model LP24-1B, 110 VAC line input, 24 VDC	
Model P5000, rechargeable battery, 24 VDC	9356559
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 holding force, 1/4-28	9356809
Magnetic holder, 35 lb holding force, 1/4-28	9353448
Sensors include:	
NIST Traceable Calibration, Mounting Stud, User M	anual and

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# Model 6036C



# High Temperature Premium Industrial Accelerometer

#### **Features**

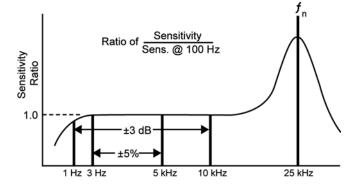
- 100 mV/g
- Extended temperature range (to 350 F)
- 2-Pin MIL style connector
- ISOSHIELD internal electrical shielding

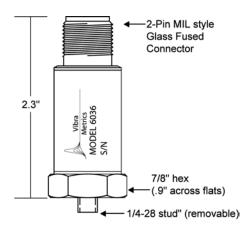
## **Applications**

- General Industrial
- Experimental
- Motors/Generators
- Fans/Cooling Towers
- Pumps

- Bearing Housings
- Gearboxes
- Compressors

Rollers





#### **Operating Specifications**

#### **Dynamic**

Sensitivity @ 100 Hz  $\pm 5\%$ : 72°F 100 mV/g 10.2 mV/ (m/s²)

350°F 87 mV/g

Frequency Range

 $\begin{array}{cccc} \pm 5\% & 3 \text{ Hz} - 5 \text{ kHz} \\ \pm 10\% & 2 \text{ Hz} - 7 \text{ kHz} \\ \pm 3 \text{ dB} & 1 \text{ Hz} - 10 \text{ kHz} \\ \end{array}$  Turn-on Time (2% of final bias)  $\begin{array}{ccc} \text{Amplitude Range (at 72°F)} & \pm 70 \text{ g} \\ \text{Mounted Resonance} & > 25 \text{ kHz} \\ \end{array}$  Transverse Sensitivity < 5%

#### **Electrical**

Noise (typical)

Broadband 2.5 Hz to 25 kHz 250  $\mu$ g rms Spectral 10 Hz 12  $\mu$ g/ $\sqrt{Hz}$  100 Hz 5  $\mu$ g/ $\sqrt{Hz}$  1000 Hz 2  $\mu$ g/ $\sqrt{Hz}$  Output Impedance 1000  $\Omega$ 

 $\begin{array}{ll} \mbox{Isolated, } > \mbox{100 Meg } \Omega \\ \mbox{Noise Rejection (EMI/RFI)} & > \mbox{80 dB, Isoshield} \end{array}$ 

Bias Volts (nominal) 10 VDC
Power Requirements 24-30 VDC
Current Regulating Diode 1-6 mA cc

#### **Environmental**

Temperature Range -40 to 350°F / -40 to 177°C Base Strain .003 g peak/µstrain

Thermal Shock .1 g/°C Shock Limit 5000 g

#### **Physical**

 $\begin{array}{lll} \mbox{Physical Dimensions} & 2.3'' \mbox{ h x .87'' hex base} \\ (5.8 \times 2.2 \mbox{ cm}) \\ \mbox{Weight} & 3.2 \mbox{ oz / 90 grams} \\ \mbox{Case Material} & 304 \mbox{ stainless steel} \\ \mbox{Design} & \mbox{Isolated compression} \\ \end{array}$ 

Seal Welded

Mounting ¼-28 removable stud
Mounting Torque 35 in-lb (3.9 N-m)
Cable/Connector 2-Pin MIL style

#### **Ordering Information:**

Model 6036C Century	9356580
Power Supplies, 2 mA output, BNC/I Model P1000B, battery, 15 VDC Model LP24-1B, 110 VAC line inpu Model P5000, rechargeable batter	9353528 t, 24 VDC 9356120
Cable, 2-Pin MIL/Pigtail 6' high tempe Cable, 2-Pin MIL/BNC 6' high tempe	perature 9354084 rature 9356381
Magnetic holder, 16 lb holding force Magnetic holder, 35 lb holding force	
Sensors include: NIST Traceable Calibration, Mountin 1-Year Warranty	g Stud, User Manual and







# Economy General Purpose Industrial Accelerometer

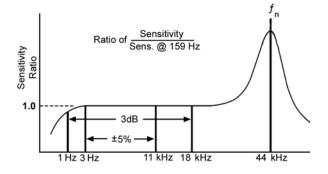
#### **Features**

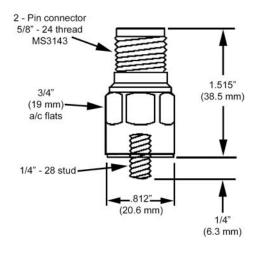
- 100 mV/g
- Splashproof
- 2-Pin MIL style connector

#### **Applications**

- General Industrial
- Motors/Generators
- Pumps
- Gearboxes
- 5 "

- Experimental
- Fans/Cooling Towers
- Bearing Housings
- Compressors
- Rollers





#### **Operating Specifications**

#### **Dynamic**

Sensitivity @ 100 Hz, ±20%	100 mV/g
Frequency Range	
±5%	3 Hz – 11 kHz
±10%	2 Hz - 14 kHz
±3 dB	1 Hz - 18 kHz
Turn-on Time	<2.5 seconds
Amplitude Range	±75 g peak
Mounted Resonance	>44 kHz
Transverse Sensitivity	<u>&lt;</u> 5%
Amplitude Linearity	<2%

#### Electrical

Noise (typical)		
Broadband	2.5 Hz to 18 kHz	50 µg
Spectral	10 Hz	10.0 μg/√Hz
	100 Hz	2.7 μg/√Hz
	1000 Hz	1.0 μg/√Hz
Output Impedance		$<$ 150 $\Omega$
Grounding		Isolated
Bias Volts		10
Power Requirements		18-28 Vdc
Current Regulation	ng Diode	1-6 mA cc

#### **Environmental**

Temperature Range -65 to 250° F Shock Limit 7000 g peak

#### **Physical**

Physical Dimensions
Weight
Case Material
Design
Seal
Mounting
Mounting
Torque

1.515" h x .75" across flats
48 grams
303 stainless steel
Piezoelectric – ring shear
Hermetic
4-28 stud
25 inches/pound

## **Ordering Information:**Model 6045

Model 6045 935/224	
2-Pin Mil style connector	
1/4-28 mounting thread	
Power Supplies, 2.2 mA output, BNC/BNC, 24 Vdc	
Model P5000 (Ni-Cad) 9356559	
Model LP24-1B (AC) 9356120	
Magnetic holder, 16 lb (for curved surfaces) 9356809	
2-Pin MIL/BNC 6' molded splashproof cable 9356686	
2-Pin MIL/Pigtail 6' high temperature cable 9354084	
2-Pin MIL/BNC 6' high temperature cable 9356381	
Sensors include:	
NIST Calibration, ¼-28 Mounting Stud, User Manual and	
1-Year Warranty	

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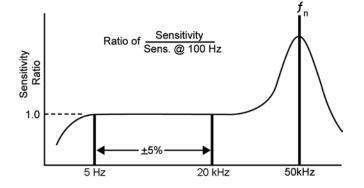
# Economy General Purpose Industrial Accelerometer

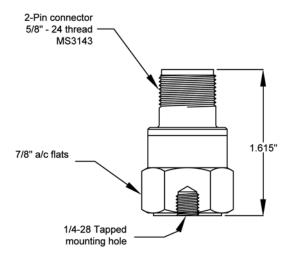
#### **Features**

- 100 mV/q
- Splashproof
- 2-Pin MIL style connector

## **Applications**

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





#### **Operating Specifications**

#### **Dynamic**

Sensitivity @ 100Hz,±10%	100 mV/g
Frequency Range	
±5%	5 Hz – 20 kHz
±3dB	2 Hz – 20 kHz
Turn-on Time	≤5 seconds
Amplitude Range	±75 g peak
Mounted Resonance	>50 kHz
Transverse Sensitivity	<u>&lt;</u> 5%
Amplitude Linearity	<2%

#### **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		$1000 \Omega$	
Grounding		Isolated	
	Bias Volts		12 VDC
Power Requirements		24-30 VDC	
Current Regulating Diode		1-6 mA cc	

#### **Environmental**

Temperature Range -40 to 250°F
Base Strain .005 g peak/µstrain
Shock Limit 5000 g peak

#### Physical

Physical Dimensions

1.515" h x .875" across flats

Weight

68 grams

Case Material

Design

Piezoelectric – ring shear

Seal

Welded - Hermetic

Mounting

1.515" h x .875" across flats

68 grams

Type 3166 stainless steel

Piezoelectric – ring shear

Welded - Hermetic

Mounting ¼-28 stud Mounting Torque 25 in - lb.

#### **Ordering Information:**

Model 6050	9357242
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	
Magnetic holder, 16 lb (for curved/flat surfaces)	9356809
Sensors include:	

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







## Standard Industrial Accelerometer

#### Features

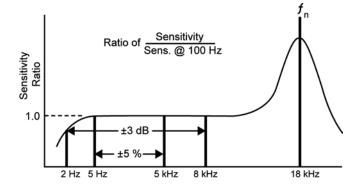
- 100 mV/g
- Integral cable
- Exclusive injection molded composite body
- Unique throughbolt mounting design
- Isolated symmetrical shear mode sensing

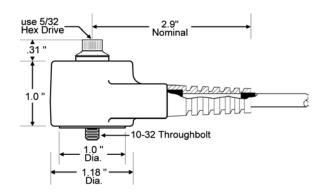
#### **Applications**

- General Industrial
- Experimental
- Motors/Generators
- Fans/Cooling Towers
- Gears/Bearings
- Pumps

Rollers

- Compressors
- Machining Centers





#### **Operating Specifications**

#### **Dynamic**

Sensitivity @ 100 Hz, ±10% 100 mV/g 10.2 mV/(m/s<sup>2</sup>) Frequency Range ±5% 5 Hz - 5 kHz 3.5 Hz - 7 kHz ±10% ±3 dB 2 Hz - 8 kHz Turn-on Time (2% of final bias) < 0.3 seconds Amplitude Range (at 72°F) ±65 g Mounted Resonance 18 kHz Transverse Sensitivity <5% Amplitude Linearity <1%

#### **Electrical**

Noise (typical) Broadband 2.5~Hz to  $25~kHz~300~\mu g~rms$ 10 Hz Spectral 28 μg/√Hz 100 Hz 8 μg/√Hz 1000 Hz 4 μg/√Hz <1000 Ω Output Impedance Isolated, >100 Meg  $\Omega$ Isolation Noise Rejection (EMI/RFI) >52 dB Bias Volts (nominal) 12 VDC Power Requirements 24-30 VDC Current Regulating Diode 1-6 mA cc

#### **Environmental**

Temperature Range -10 to 200°F / -20 to 95°C Base Strain .001 g peak/µstrain Thermal Shock <.0002 g peak/°C Shock Limit 5000 g

# Physical Physical Dimensions

Weight 1.6 oz / 45 grams plus cable
Case Material Welded stainless steel with
composite polymer
Design Isolated shear
Mounting 10-32 captive throughbolt
Mounting Torque 20 in-lb (2.2 N-m)
Cable/Connector PVC to BNC or Pigtail

1.0" h x 1.2" dia. (2.5 x 3 cm)

#### **Ordering Information:**

Model 7002P (Pigtail) 9356888
Model 7002B (BNC) 9356887
Power Supplies, 2 mA output, BNC/BNC
Model P1000B, battery, 15 VDC 9353528
Model LP24-1B, 110 VAC line input, 24 VDC 9356120
Model P5000, rechargeable battery, 24 VDC 9356559
Magnetic holder, 16 lb holding force, 10-32 9356816
Magnetic holder, 35 lb holding force, 10-32 9353449
Sensors include:
NICT Tracophia Calibration 15' Cable Assembly Mounting

NIST Traceable Calibration, 15' Cable Assembly, Mounting Throughbolt, Adhesive Mounting Pad, User Manual and 2-Year Warranty





# Model 7002HG



## Standard High g Accelerometer

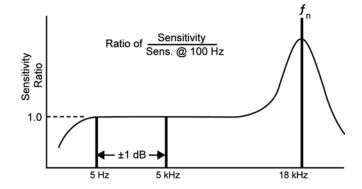
#### **Features**

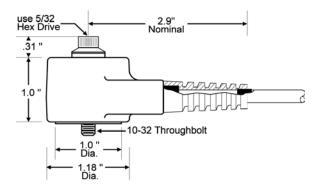
- 10 mV/g for high acceleration measurements
- Integral cable
- Exclusive injection molded composite body
- Unique throughbolt mounting design
- Isolated symmetrical shear mode sensing

#### **Applications**

- General Industrial
- Motors/Generators
- Pumps
- Gears/Bearings
- Rollers

- Experimental
- Fans/Cooling Towers
- Wayside (Railroad)
- Compressors
- Machining Centers





#### **Operating Specifications**

#### **Dynamic**

#### **Electrical**

Noise (typical)

Broadband 1 Hz to 10 kHz 3000  $\mu g$  rms Spectral 10 Hz 280  $\mu g/\sqrt{Hz}$  100 Hz 80  $\mu g/\sqrt{Hz}$  1000 Hz 40  $\mu g/\sqrt{Hz}$  Output Impedance <1000  $\Omega$  Isolation Isolated, >100 Meg  $\Omega$ 

Noise Rejection (EMI/RFI) >52 dB
Bias Volts (nominal) 12 VDC
Power Requirements 24-30 VDC
Current Regulating Diode 1-8 mA cc

#### **Environmental**

Temperature Range -10 to 200°F / -20 to 95°C
Base Strain .001 g peak/µstrain
Thermal Shock <.0002 g peak/°C
Shock Limit 5000 q

#### **Physical**

 $\begin{array}{lll} \mbox{Physical Dimensions} & 1.0'' \mbox{ h x } 1.2'' \mbox{ dia. } (2.5 \times 3 \mbox{ cm}) \\ \mbox{Weight} & 1.6 \mbox{ oz } / \mbox{ 45 grams plus cable} \\ \mbox{Case Material} & \mbox{Inner Housing} & \mbox{Stainless steel (welded)} \\ \mbox{ Molded Jacket} & \mbox{Composite polymer} \end{array}$ 

Design Isolated shear
Seal Electron-beam welded plus injection molded encapsulent

Mounting 10-32 captive throughbolt
Mounting Torque 20 in-lb (2.2 N-m)
Cable/Connector PVC to BNC or Pigtail

Cable Pull Strength 40 lb.

# Ordering Information: Model 7002HGP (Pigtail) .......9356962

Power Supplies, 2 mA output, BNC/BNC
Tower Supplies, 2 m/r output, bire, bire
Model P1000B, battery, 15 VDC 9353528
Model LP24-1B, 110 VAC line input, 24 VDC 9356120
Model P5000, rechargeable battery, 24 VDC 9356559
Magnetic holder, 16 lb holding force, 10-32 9356816
Magnetic holder, 35 lb holding force, 10-32 9353449
Sensors include:

NIST Traceable Calibration, 15' Cable Assembly, Mounting Throughbolt, Adhesive Mounting Pad, User Manual and 2-Year Warranty





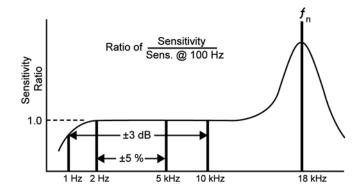
## Premium Accelerometer for Permanent Installation

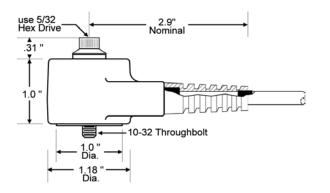
#### **Features**

- 100 mV/g
- Integral TUFKEM chemical resistant cable
- Exclusive injection molded composite body
- Unique throughbolt mounting design
- Excellent signal-to-noise ratio
- Isolated symmetrical shear mode sensing

#### **Applications**

- Severe Chemical Presence
- Gears/Bearings
- Machining Centers
- Heavy Industrial
- Cooling Towers





#### **Operating Specifications**

#### **Dynamic**

Sensitivity @ 100 Hz, ±5% 100 mV/g 10.2 mV/(m/s<sup>2</sup>) Frequency Range ±5% 2 Hz - 5 kHz 1.7 Hz - 7 kHz ±10% ±3 dB 1 Hz - 10 kHz Turn-on Time (2% of final bias)  $\leq$ 0.3 seconds \_ ±65 g Amplitude Range (at 72°F) Mounted Resonance 18 kHz Transverse Sensitivity <5% Amplitude Linearity <1%

#### **Electrical**

Noise (typical) Broadband 2.5~Hz to 25~kHz  $200~\mu g$  rms 10 Hz 20 μg/√Hz Spectral 100 Hz 4 μg/√Hz 2 μg/√Hz 1000 Hz <1000 Ω Output Impedance Isolated, >100 Meg  $\Omega$ Isolation Noise Rejection (EMI/RFI) >52 dB Bias Volts (nominal) 12 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 .001 g peak/µstrain
Thermal Shock <.0002 g peak/°C
Shock Limit 5000 g

#### **Physical**

**Physical Dimensions** 1.0" h x 1.2" dia. (2.5 x 3 cm) Weight 45 grams plus cable Case Material Welded stainless steel with composite polymer Isolated shear Design Seal Injection molded encapsulent Mounting 10-32 captive throughbolt Mounting Torque 20 in-lb (2.2 N-m) TUFKEM® cable to BNC Cable/Connector or Pigtail

#### **Ordering Information:**

Lifetime Partnership Warranty

Model 6002P (Pigtali)9356901
Model 8002B (BNC) 9356900
Power Supplies, 2 mA output, BNC/BNC
Model P1000B, battery, 15 VDC 9353528
Model LP24-1B, 110 VAC line input, 24 VDC 9356120
Model P5000, rechargeable battery, 24 VDC 9356559
Magnetic holder, 16 lb holding force, 10-32 9356816
Magnetic holder, 35 lb holding force, 10-32 9353449
Sensors include:
NIST Traceable Calibration, 15' Cable Assembly, Mounting
Throughbolt, Adhesive Mounting Pad, User Manual and

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# Model 8002C/CFM

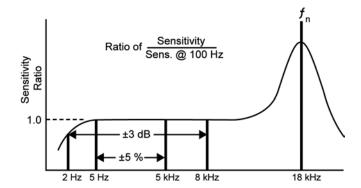
## High Temperature Accelerometer for Permanent Installation

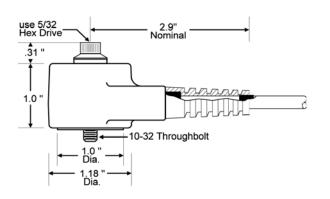
#### **Features**

- 100 mV/g
- Integral TUFKEM chemical resistant cable
- Exclusive injection molded composite body
- Unique throughbolt mounting design
- Extended temperature range (to 350F)
- Optional intrinsically safe FM certification

#### **Applications**

- Severe, High Temperature Chemical Presence
- Atomizers
- Gears/Bearings
- Heavy Industrial
- Cooling Towers





#### **Operating Specifications**

#### **Dynamic**

Sensitivity @ 100 Hz, ±5% 100 mV/g 10.2 mV/ (m/s<sup>2</sup>) Frequency Range 5 Hz – 5 kHz 4 Hz – 6 kHz ±5% ±10% ±3 dB 2 Hz - 10 kHz Turn-on Time (2% of final bias) <0.3 seconds Amplitude Range (at 72°F) ±65 g >18 kHz Mounted Resonance Transverse Sensitivity < 5% <1% Amplitude Linearity

#### **Electrical**

Noise (typical) Broadband 2.5 Hz to 25 kHz 380 µg rms 10 Hz Spectral 32 µg/√Hz 8 μg/√Hz 3.5 μg/√Hz 100 Hz 1000 Hz <1000 Ω Output Impedance Isolation Isolated,  $>100 \text{ Meg } \Omega$ Noise Rejection (EMI/RFI) >52 dB Bias Volts (nominal) 8 VDC 24-30 VDC Power Requirements Current Regulating Diode 1-6 mA cc

#### **Environmental**

Temperature Range -40 to 300°F / -40 to 149°C
Base Strain .001 g peak/µstrain
Thermal Shock <.0002 g peak/°C
Shock Limit 5000 g

#### **Physical**

 $1.0''\,h\,x\,1.2''\,$  dia.  $(2.5\,x\,3\,cm)$   $1.6\,$  oz  $/\,$  45 grams plus cable Welded stainless steel with **Physical Dimensions** Wéiaht Case Material composite polymer Isolated shear Design Injection molded encapsulent Seal Mounting 10-32 captive throughbolt 20 in-lb (2.2 N-m) TUFKEM® cable to BNC Mounting Torque Cable/Connector or Pigtail Cable Pull Strength 60 lb.

#### **Ordering Information:**

Lifetime Partnership Warranty

rioder coozer (rigidir) illininininininininininin 3330333
Model 8002CB (BNC) 9356998
Model 8002CFMP (Pigtail) 9356931
Model 8002CFMB (BNC) 9356930
Power Supplies, 2 mA output, BNC/BNC
Model P1000B, battery, 15 VDC 9353528
Model LP24-1B, 110 VAC line input, 24 VDC 9356120
Model P5000, rechargeable battery, 24 VDC 9356559
Magnetic holder, 16 lb holding force, 10-32 9356816
Magnetic holder, 35 lb holding force, 10-32 9353449
Sensors include:
NIST Traceable Calibration, 15' Cable Assembly, Mounting
· · · · · · · · · · · · · · · · · · ·

Throughbolt, Adhesive Mounting Pad, User Manual and

Model 8002CP (Pigtail) ...... 9356999







# Model 8002HS



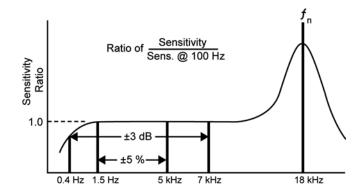
# High Sensitivity Premium Accelerometer

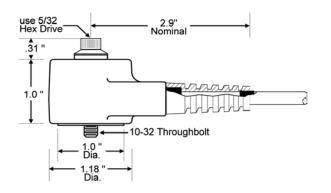
#### **Features**

- High Sensitivity of 500 mV/g
- Integral TUFKEM chemical resistant cable
- Exclusive injection molded composite body
- Unique throughbolt mounting design
- Isolated symmetrical shear mode sensing

#### **Applications**

- Low Amplitude Focus
- Severe Chemical Presence
- Heavy Industrial
- Rollers
- Gears/Bearings





#### **Operating Specifications**

#### **Dynamic**

Sensitivity @ 100 Hz, ±5%	500 mV/g	51 mV/(m/s <sup>2</sup> )
Frequency Range	4 = 11 = 11	
±5%	1.5 Hz – 5 kł	1Z
±10%	.7 Hz – 6 kH:	Z
±3 dB	.4 Hz – 7 kH:	Z
Turn-on Time (2% of final bias)	<0.3 seconds	5
Amplitude Range (at 72°F)	±10 g	
Mounted Resonance	>18 kHz	
Transverse Sensitivity	<5%	
Amplitude Linearity	<1%	

#### **Electrical**

CUTICAL			
Noise (typical)			
Broadband	2.5 Hz to 25 kHz	60 μg rms	
Spectral	10 Hz	1.0 μg/√Hz	
	100 Hz	.4 μg/√Hz	
	1000 Hz	.1 μg/√Hz	
Output Impedance		2000 Ω	
Isolation		Isolated, $>100$ Meg $\Omega$	
Noise Rejection (EMI/RFI)		>52 dB	
Bias Volts (nominal)		12 VDC	
Power Requirements		24-30 VDC	
Current Regulatir	ng Diode	1-6 mA cc	

#### **Environmental**

Temperature Range	-40 to 250°F / -40 to 121°C
Base Strain	.001 g peak/µstrain
Thermal Shock	<.0002 g peak/°C
Shock Limit	5000 g

#### **Physical**

Physical Dimensions	1.0" h x 1.2" dia. (2.5 x 3 cm)
Weight	1.6 oz / 45 grams plus cable
Case Material	Welded stainless steel with
	composite polymer exterior
Design	Isolated Shear
Seal	Injection molded encapsulent
Mounting	10-32 captive throughbolt
Mounting Torque	20 in-lb (22 N-m)
Cable/Connector	TUFKEM® cable to BNC
	or Pigtail

## **Ordering Information:**

Lifetime Partnership Warranty

Model 6002n3r (rigiali)9336934
Model 8002HSB (BNC) 9356933
Power Supplies, 2 mA output, BNC/BNC
Model P1000B, battery, 15 VDC 9353528
Model LP24-1B, 110 VAC line input, 24 VDC 9356120
Model P5000, rechargeable battery, 24 VDC 9356559
Magnetic holder, 16 lb holding force, 10-32 9356816
Magnetic holder, 35 lb holding force, 10-32 9353449
Sensors include:
NIST Traceable Calibration, 15' Cable Assembly, Mounting
Throughbolt, Adhesive Mounting Pad, User Manual and

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## Sub-Minature Low-Impedance Accelerometer

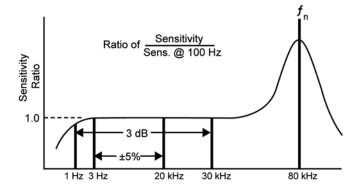
#### **Features**

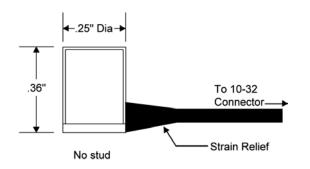
- 8.5 mV/g
- Sub-miniature size / lightweight
- Internal signal conditioning
- Broad frequency range
- Integral coaxial strain-relieved cable

## **Applications**

- Dry Industrial
- Experimental
- Motors/Generators
- Aerospace
- Pumps

- Military
- Gears/Bearings
- Machining Centers
- Rollers





#### **Operating Specifications**

#### **Dynamic**

Sensitivity @ 100 Hz, ±5%	8.5 mV/g	1.0 mV/(m/s <sup>2</sup> )
Frequency Range		
±5%	3 Hz - 20 k	Hz
±10%	2 Hz - 25 k	Hz
±3 dB	1 Hz - 30 k	Hz
Turn-on Time	<5 seconds	
Amplitude Range	±550 g	
Mounted Resonance	>80 kHz	
Transverse Sensitivity	<5%	

#### **Electrical**

Noise (typical)

Broadband 2.5 Hz to 25 kHz 1500 µg rms Spectral 10 Hz 100 μg/√Hz 100 Hz 25 μg/√Hz 10 μg/√Hz 1000 Hz Output Impedance  $1000 \Omega$ . Isolation Case ground Bias Volts (nominal) 7 VDC Power Requirements 15-30 VDC

#### **Environmental**

Current Regulating Diode

Temperature Range -40 to 250°F -40 to 121°C Base Strain .005 g peak/µstrain

1-6 mA cc

Thermal Shock 9.7 g/°C Shock Limit 5000 g

#### **Physical**

Physical Dimensions .36'' h x .25'' dia. (.9 x .6 cm) Weight .027 oz /.75 grams

Case Material Titanium
Design Compression
Seal Epoxy

Mounting Adhesive (no stud)
Cable/Connector Integral cable to 10-32

Model 9001A ...... 9353031

#### **Ordering Information:**

#### Sensors include

NIST Traceable Calibration, Integral 6' Cable Assembly, User Manual, 1-Year Warranty





# Model 9002A



## Sub-Minature High Frequency Accelerometer

#### **Features**

- 100 mV/q
- Sub-miniature size / lightweight
- Internal signal conditioning
- Broad frequency range
- Integral coaxial strain-relieved cable

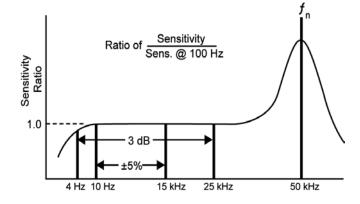
## **Applications**

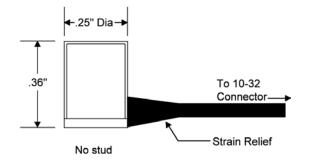
- Dry Industrial
- Experimental
- Motors/Generators
- Aerospace

Pumps

- Military
- Gears/Bearings
- Machining Centers

Rollers





#### **Operating Specifications**

#### **Dynamic**

Sensitivity @ 100 Hz, ±20% 100 mV/g  $10.2 \, \text{mV/(m/s}^2)$ Frequency Range ±5% 10 Hz - 15 kHz 8 Hz - 18 kHz 4 Hz - 25 kHz ±10% ±3 dB Turn-on Time <5 seconds Amplitude Range ±50 g peak Mounted Resonance >50 kHz Transverse Sensitivity <5%

#### **Electrical**

Noise (typical)

Broadband 2.5 Hz to 25 kHz 550 µg (rms) Spectral 10 Hz 130 µg/√Hz 100 Hz 10 μg/√Hz 1000 Hz 3 μg/√Hz Output Impedance  $1000 \Omega$ Isolation Case ground Bias Volts (nominal) 10 VDC Power Requirements 24-30 VDC Current Regulating Diode 1-6 mA cc

#### **Environmental**

Temperature Range -40 to 230°F -40 to 110°C Base Strain .005 g peak/µstrain Shock Limit 5,000 g peak

#### **Physical**

Cable

**Physical Dimensions** .36" h x .25" dia.  $(.91 \times .64 cm)$ Weight (without cable) .03 oz. / .75 grams Case Material Titanium Design Compression Seal Epoxy Mounting Adhesive (no stud) Integral cable to 10-32

## Ordering Information:

Manual, 1-Year Warranty

Power Supplies, 2 mA output 10-32/BNC connectors Model P1000, battery, 15 VDC9353527 Model LP24-1, 110 VAC line input, 24 VDC9356451
BNC/BNC connectors  Model P5000, rechargeable battery, 24 VDC 9356559 BNC/10-32 adapter
Cable, Extension, 10-32(F)/10-32(M) 9354054
Sensors include: NIST Traceable Calibration, Integral 6' Cable Assembly, User

Model 9002A ...... 9356748





# **Model P & LP Series**

# **Accelerometer Power Supplies**









#### **Features**

#### P1000/3000 Series

- Disposable battery
- Portable use
- Battery test light
- One/three channels
- BNC or 10-32 I/P

#### P5000 Series

- Ni-Cad battery
- Charger
- 3 position gain
- LED indicators for low battery, clipping and fault

#### **LP24 Series**

- Line-powered
- One/three channels
- BNC or 10-32 I/P

#### **LP241 Series**

- Rack mount
- Low profile
- Line-powered
- Twelve channels

Operating Specifications:	<u>P1000</u>	<u>P3000</u>	<u>P5000</u>	LP24-1	LP24-3	LP241-12
Number of Channels	1	3	1	1	3	12
Accel. Excitation, Vdc	15	15	24	24	24	24
Excitation Current, mA	2	2	2	2	2	2
Voltage Gain (+/- %2)	Unity	Unity	x1, x10, x100	Unity	Unity	Unity
Frequency Response, Hz	.5-100 K	.5-100 K	.5-100 K	.5-100 K	.5-100 K	.5-100 K
Output Signal F.S., Pk., V	10	10	10	10	10	10
Noise(rms) (0-10Khz), mV	.002	.002	.002	.2	.2	.2
Linearity	1%	1%	1%	1%	1%	1%
Power Required	(1) 15 V battery	(3) 15 V battery	(3) 9 V battery*	115 V ac or 220 V ac	115 V ac or 220 V ac	115 V ac or 220 V ac
Accel. Connector	10-32 or BNC	10-32 or BNC or 4 pin	BNC <sup>A</sup>	10-32 or BNC	BNC <sup>A</sup>	BNC <sup>A</sup>
<b>Output Connector</b>	BNC	BNC	BNC	BNC	BNC	BNC
Dimensions(HxWxD) in.	1.4x2.25x1.1	2.6 x 3 x 1.6	5.25 x 2.6 x 1.75	2.6 x 5.3 x 1.7	2.6 x 5.3 x 1.7	3.5 x 19 x 5.25
Weight, oz.	3	9	25	22	22	76

<sup>^</sup>A BNC - 10-32 adaptor is available \*Specify 110 or 220 V charger





# **Model SB Series**



## General Purpose Industrial Switchboxes

#### **Features**

- Nema 4 Enclosure
- Fully sealed rotary switch (internal on SB06)
- Capped BNC output connector (internal on SB06)
- Sealed electrical connections with door closed

#### **Applications**

- Where reduced time for multiple point monitoring is required
- For permanently mounted accelerometers with multiple points of interest
- When more accurate/repeatable data is required
- In dangerous locations that present a hazard for manual monitoring
- In locations that are difficult or inconvenient to reach

#### **Operating Specifications**

Enclosure NEMA 4<sup>A</sup>

Door Closure Clamps (Latch on SB06)

Inputs Terminal Block

Output BNC Jack (and 2-Pin MIL on SB06)

Channels 6, 12, 24 or 48

Enclosure Material Fiberglass/Steel/Stainless



Model	Part	Number	Output	Enclosure	Dimensions	
<u>Number</u>	<u>Number</u>	of Channels	<u>Connectors</u>	<u>Material</u>	<u>W x H x D</u>	Weight (lbs.)
SB06WP	9361037	6	(1) BNC, (1) 2 Pin Mil	Fiberglass	7.7" x 9.6" x 4.6"	6
SB12WP	9361030	12	(1) BNC	Steel	12" x 12" x 6"	25
SB12WPSS	9361030	12	(1) BNC	Stainless Steel	12" x 12" x 6"	25
SB24WP	9361025	24	(1) BNC	Steel	12" x 12" x 6"	25
SB24WPSS	9361025	24	(1) BNC	Stainless Steel	12" x 12" x 6"	25
SB48WP <sup>B</sup>	9361020	48	(2) BNC	Steel	12" x 12" x 6"	25
SB48WPSS <sup>B</sup>	9361020	48	(2) BNC	Stainless Steel	12" x 12" x 6"	25

A No knockouts on enclosure - Cable entry hole (3" max diameter) and connections to be supplied by customer

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<sup>&</sup>lt;sup>8</sup> Models SB48 have (2) twenty-four channel position select switches with separate BNC output for each switch



# Model VM500



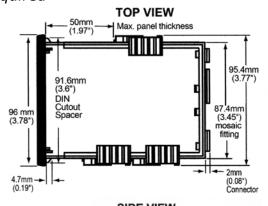
## General Purpose Industrial Monitor

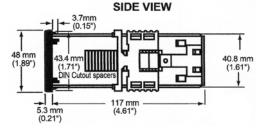
#### **Features**

- Versatile acceleration, velocity, displacement or temperature monitor
- Interface with accelerometer, proximity probe or "J" type thermocouple
- Two programmable alarm levels with delay on make/break relays
- 4-20 mA fully scalable output for interface with PLC, DCS, alarm and SCADA systems
- RMS (standard) or peak readings
- Small NEMA 4, 1/8 DIN package
- High/low pass filters available
- Adjustable sampling time
- Signal output: raw, filtered, rep. DC value

#### **Applications**

 Any application where immediate display of machine PdM data or 4-20 mA output is required





#### **Operating Specifications**

#### **Dynamic**

Accuracy ±5% Acceleration 3 Hz - 10 kHz
Velocity 3 Hz - 10 kHz
Displacement 6 Hz - 10 kHz

Optional Filtering

High Pass: 2, 5, 10, 20, 50, 100, 200, 500, 5k Hz Low Pass: none, 50, 70, 100, 200, 500, 1k, 2k Hz Accelerometer Input, mV/g 100 (standard) 10 or 500

#### **Electrical**

Power Requirements, Auto-sensing AC-DC 85-265 VAC, 95-370 VDC (standard) 15-48 VAC, 10-72 VDC

Relays (2) Form C

#### **Environmental**

Operating Temperature Range
Acceleration Limit
Velocity Limit
Displacement Limit
Temperature Limit

32°F to 140°F / 0°C to 60°C
20 g
20 ips
200 mils
1400°F / 760°C

#### **Physical**

Display .56 inch bright red LED Weight 6.5 ounces / 184 grams

Front Panel NEMA 4
Connectors MSTB

