

Product Selection Guide



VIP SENSORS offers a broad range of accelerometers, electronic instrumentation, and accessories for the measurement of vibration and shock. The range of accelerometer products include miniature units that weigh one gram, seismic units that resolve less than 50 micro-g's, shock accelerometers that measure up to 50,000 g's, and rugged designs for use in gas turbine engines and rotating machinery. The company strives to provide state-of-the-art, quality products at a very competitive price.

Accelerometer & Instrumentation Products

The company's product line includes:



- Piezoresistive (PR) Accelerometers – Undamped, voltage output
- Piezoelectric (PE) Accelerometers - high impedance, charge output
- Voltage Mode Accelerometers (IEPE) - low impedance, voltage output
- Signal Conditioners
- Smart Sensors Network Systems
- Portable & Handheld Vibration Calibrators
- Cable Assemblies & Accessories

Calibration Services

In addition to offering portable calibration products, shock and vibration calibration services are also available for all types of accelerometers. All calibrations performed by Precision Labs.

- Shock & Vibration Calibration Services
- Accelerometers & Accelerometer/Amplifier Systems
- Traceable to NIST (National Institute of Standards & Technology)
- A2LA Accredited to ISO 17025-2005
- Certified to ISO 9001:2000

Accelerometers Piezoresistive Accelerometers







Model		PIEZORESISTIVE ACCELEROMETERS DESCRIPTION
	1500-500	Single Axis, 0.4 to 0.8 mV/g, 500g range, Shock Limit 2,000 g (1 ms), 0 to 3KHz, 0 to + 150 °F, 1 gram
	1500-2000	Single Axis, 0.15 to 0.2 mV/g, 2000g range, Shock Limit 3,500 g (0.2 ms), 0 to 5KHz, 0 to + 150 °F, 1 gram

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Accelerometers

Piezoelectric Accelerometers

High impedance, charge output













Model	PIEZOELECTRIC ACCELEROMETERS DESCRIPTION	
 1006A		Triaxial, 13 pC/g, 17 gm, Shock Limit 2,000 g, 0.5 to 6KHz, - 40 to + 302 F, Grounded, screw mount
 1010A		Single Axis, 1.2 pC/g, 1.2 gm, Shock Limit 20,000 g, 5 to 20 KHz, -40 to 302 F, Grounded, Adhesive mount
 1011A		Single Axis, 1.2 pC/g, 1.2 gm, Shock Limit 20,000 g, 5 to 20 KHz, -40 to 302 F, Grounded, Adhesive mount
 1012A		Single, Axis, 13 pC/g, 5 gm, Shock Limit 2,000 g, 1 – 15 KHz, -40 to 302 F, Grounded, Stud mount
 1013A		Single Axis, 20 pC/g, 14 gm, Shock Limit 2,000 g, 0.5 to 12 KHz, -4 to 248 F, Grounded, Stud mount
 1014A		Single Axis, 35 pC/g, 30 gm, Shock Limit 800 g, 0.5 to 8 KHz, -4 to 248 F, Grounded, Stud mount
 1015A		Single Axis, 25 pC/g 15 gm, Shock Limit 2,000 g, 0.5 to 12 KHz, -4 to 248 F, Grounded, Stud mount
 1016A		Single Axis, 55 pC/g, 28 gm, Shock Limit 800 g, 0.5 to 6 KHz, -40 to 302 F, Grounded, Stud mount
 1017A		Single Axis, 2 pC/g, 2.8 gm, Shock Limit 2,000 g, 0.5 to 7 KHz, -40 to 302 F, Grounded, Adhesive mount
 1018A		Single Axis, 150 pC/g, 38 gm, Shock Limit 600 g, 0.3 to 5 KHz, -40 to 302 F, Grounded, Stud mount
 1021A		Single Axis, 2 pC/g, 1.4 gm, Shock Limit 5,000 g, 1 to 12 KHz, -40 to 302 F, Grounded, Screw mount
 1021B		Single Axis, 2 pC/g, 1.4 gm, Shock Limit 5,000 g, 1 to 12 KHz, -40 to 302 F, Grounded, Screw mount
 1022A		Single Axis, 15 pC/g, 9 gm, Shock Limit 2,000 g, 0.5 to 8 KHz, -40 to 302 F, Grounded, Screw mount
 1023A		Single Axis, 1.2 pC/g, 35 gm, Shock Limit 1,000 g, 0.5 to 6 KHz, -40 to 302 F, Grounded, Stud mount
 1100A		Single Axis, 0.3 pC/g, 10 gm, Shock Limit 50,000 g, 2 to 15 KHz, -65 to 482 F, Grounded, Stud mount
 1300		Single Axis, 50 pC/g, 100 gm, Shock Limit 1,000 g, 5 to 3 KHz, -40 to 482 F, Isolated, Screws (3)
 1400A		Single Axis, 1,000 pC/g, 100 gm, Shock Limit 200 g, .3 to 2,5 KHz, -40 to 302 F, Grounded, Stud mount

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Accelerometers





Internal Electronics Piezoelectric (IEPE)

Low impedance, voltage output


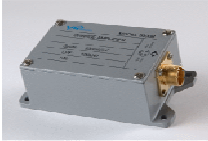


Model		PIEZOELECTRIC ACCELEROMETERS, WITH INTEGRAL ELECTRONICS (IEPE) DESCRIPTION
	2005	Single, 5 mV/g, 14 gm, Range 200 g pk, Shock Limit 1,000 g, 1 to 7 KHz, - 4 to + 248 F, Grounded, Stud mount
	2008A	Single, 1 mV/g, 8 gm, Range 5,000 g pk, Shock Limit 5,000 g, 1 to 6 KHz, - 4 to + 248 F, Grounded, Stud mount
	2009A	Single, 10 mV/g, 14 gm, Range 500 g pk, Shock Limit 1,000 g, 0.5 to 10 KHz, - 4 to + 248 F, Grounded, Stud mount
	2010A	Single, 10 mV/g, 14 gm, Range 500 g pk, Shock Limit 1,000 g, 0.5 to 10 KHz, - 4 to + 248 F, Grounded, Stud mount
	2011A	Single, 20 mV/g, 17 gm, Range 250 g pk, Shock Limit 3,000 g, 0.5 to 8 KHz, - 4 to + 248 F, Grounded, Stud mount
	2012A	Single, 50 mV/g, 26 gm, Range 100 g pk, Shock Limit 1,000 g, 0.3 to 4 KHz, - 4 to + 248 F, Isolated, Stud mount
	2015A	Single, 100 mV/g, 12 gm, Range 50 g pk, Shock Limit 1,000 g, 0.5 to 6 KHz, - 4 to + 248 F, Stud mount
	2016A	Single, 100 mV/g, 10 gm, Range 50 g pk, Shock Limit 1,000 g, 0.5 to 6 KHz, - 4 to + 248 F, Stud mount
	2017AS10	Single, 10 mV/g, 6 gm, Range 500 g pk, Shock Limit 1,000 g, 0.5 to 5 KHz, - 4 to + 248 F, Adhesive mount
	2017AS100	Single, 100 mV/g, 10 gm, Range 50 g pk, Shock Limit 1,000 g, 0.5 to 5 KHz, - 4 to + 248 F, Adhesive mount
	2100A	Triaxial, 10 mV/g, 20 gm, Range 500 g pk, Shock Limit 2,000 g, 0.5 to 3.5 KHz, - 4 to + 248 F, Grounded, Stud mount
	2400A	Single, 1,000 mV/g, 110 gm, Range 5 g pk, Shock Limit 500 g, 0.3 to 1 KHz, - 4 to + 248 F, Grounded, Stud mount
	2401	Single, 100 mV/g, 24 gm, Range 50 g pk, Shock Limit 2,000 g, 1 to 5 KHz, - 4 to + 248 F, Isolated, Stud mount
	2401A	Single, 100 mV/g, 24 gm, Range 50 g pk, Shock Limit 2,000 g, 1 to 5 KHz, - 4 to + 248 F, Grounded, Stud mount
	2402A	Single, 10,000 mV/g, 250 gm, Range 1 g pk, Shock Limit 500 g, 0.2 to 1 KHz, - 4 to + 248 F, Isolated, Stud mount

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Electronics IEPE Signal Conditioners


Model	
	<p>Model 5103 IEPE Signal Conditioner 16 Channels, Status LED's Selectable Gain 1 or 10 on Front Panel</p>
	<p>Model 5102 IEPE Signal Conditioner 12 Channels, Status LED's Selectable Gain 1 or 10</p>
	<p>Model 5100 IEPE Signal Conditioner Battery Powered Selectable Gain 1 or 10 Wide Frequency Range</p>
	<p>Model 5005 Signal Conditioner 3-channel, Low Noise 100 KHz Bandwidth Charge, IEPE and Voltage type inputs Acceleration, Velocity & Displacement Outputs</p>

Charge Signal Conditioner Amplifier



	<p>Model 5004 Charge Converter 3 Gain Versions IEPE Type Output ID / TEDS Memory Chip</p>
	<p>Model 5000 Charge Converter High Gain Wide Bandwidth Short-Circuit Protection</p>
	<p>Model 5002 Signal Conditioners Charge and Voltage type Inputs Low Noise, Selectable Gain Selectable Corner Frequencies</p>
	<p>Model 5003 Signal Conditioners Charge and Voltage type Inputs Low Noise, Selectable Gain Selectable Corner Frequencies DC Battery Powered Acceleration, Velocity & Displacement Outputs</p>

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Electronics DC Voltage Amplifier

Model	
	<p>Model 5200 Signal Conditioner 3-channel DC Voltage Amplifier DC to 200 KHz Bandwidth Front Panel Switch for Shunt Calibration</p>

Portable Shakers



	<p>Model 5902 Portable Shaker Built-in Reference Accelerometer Adjustable Amplitude/ Frequency Output Display</p>
	<p>Model 5901 Handheld Shaker 1 g Vibration Constant Amplitude & Frequency Battery Powered</p>

TEDS Reader

	<p>Model 5701 TEDS Reader Reads Transducer Electronic Data Sheets (TEDS) Reads IEEE 1451.4 Versions 0.9, 1.0 and LMS 117/118</p>
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Smart Sensors Network System




Intellibus Network Interface Controllers and Control Software

	<p>Model 6100-PCI-X Network Interface Controller (NIC) Supports Intellibus Protocol Two Intellibus Serial Ports</p>
	<p>Model 6000SW Smart Sensor Network Application Software Configures IBIMs and Smart Sensors Programmable Settings Records and View Collected Data</p>





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Smart Sensors Network System


Smart Sensors

Model	
	<p>Model 2300 Smart Piezoelectric Accelerometer Digital Output Accelerometer Intellibus Compliant Programmable Full Scale and Digital Filter</p>
	<p>Model 2330 Smart Piezoelectric Accelerometer Digital Output Accelerometer Intellibus Compliant Programmable Full Scale and Digital Filter</p>
	<p>Model 2600 Smart Piezoresistive Accelerometer Digital Output Accelerometer Intellibus Compliant Programmable Full Scale and Digital Filter</p>

Intellibus Interface Module (IBIM)

	<p>Model 6003 3 Channel Base Interface Module Resistive Bridge, Differential or Single Ended Voltage Sensor Inputs Programmable Gain, Offset, Excitation, TEDS and Digital Filter Intellibus Network Interface</p>
	<p>Model 6004 3 Channel Base Add-on Module Resistive Bridge, Differential or Single Ended Voltage Sensor Inputs Programmable Gain, Offset, Excitation, TEDS and Digital Filter Intellibus Network Interface</p>
	<p>Model 6005 3 Channel DSP Module Resistive Bridge, Differential or Single Ended Voltage Sensor Inputs Programmable Gain, Offset, Excitation, TEDS and Digital Filter Intellibus Network Interface</p>
	<p>Model 6006 3 Channel Base Interface Module Integral Electronic Piezoelectric Transducer Inputs Programmable Gain, Offset, Excitation, TEDS and Digital Filter Intellibus Network Interface</p>

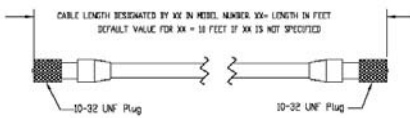
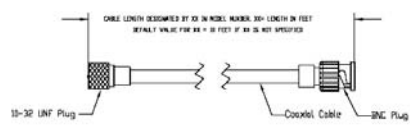
Intellibus Starter Kit

	<p>Model 6000-KIT Smart Sensors Network System Starter Kit - Includes Models (1) 6100-PCI-X, (1) 6000SW, (3) 6003, (3) 6005, (1) 2300 and related cables and accessories</p>
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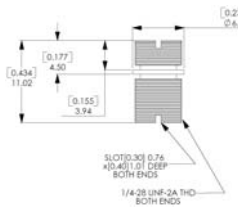
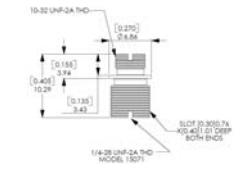
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Cables and Accessories

Cables

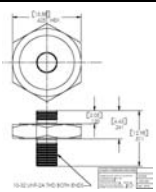
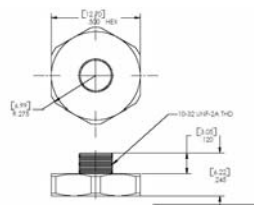
Model	Description
	9001L10 Low Noise, Coaxial M5/M5, 10 ft (3.0 m)
	9002L10 Low Noise, Coaxial M5/10-32, 10 ft (3.0 m)
	9003L10 Low Noise, Coaxial M5/BNC, 10 ft. (3.0 m)
	9005L3 Low Noise, Coaxial 10-32/BNC, 3 ft. (0.3 m)
	9005L5 Low Noise, Coaxial 10-32/BNC, 5 ft. (0.9 m)
	9005L10 Low Noise, Coaxial 10-32/BNC, 10 ft. (3.0 m)
	9005L20 Low Noise, Coaxial 10-32/BNC, 20 ft. (6.1 m)
9005L30 Low Noise, Coaxial 10-32/BNC, 30 ft. (9.1m)	
	9005LXX Low Noise, Coaxial 10-32/BNC, Custom Length (XX = ft.)
	9006L1 Low Noise, Coaxial 10-32/10-32, 1 ft. (0.3 m)
	9006L3 Low Noise, Coaxial 10-32/10-32, 3 ft. (0.9 m)
	9006L5 Low Noise, Coaxial 10-32/10-32, 5 ft. (1.5 m)
	9006L10 Low Noise, Coaxial 10-32/10-32, 10 ft. (3.0 m)
	9006L20 Low Noise, Coaxial 10-32/10-32, 20 ft. (6.1 m)
	9006L30 Low Noise, Coaxial 10-32/10-32, 30 ft. (9.1 m)
	9006LXX Low Noise, Coaxial 10-32/10-32, Custom Length (XX = ft.)
	9007LXX Cable Adapter, IBIM To IBIM, Lemo plug/Lemo Receptacle
	9009L6 Coaxial BNC Plug / BNC Plug, 6 ft. (1.8 m)

Mounting Studs & Accessories

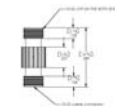

Model	Description
	9504-1 Stud, M5/10-32
	9504-2 Stud, M6/ ¼-28
	9504-3 Stud, M3/10-32
	9504-8 Stud, 10-32/10/32
	9504-9 Stud, 10-32/ ¼-28
	9504-10 Stud, ¼-28 / ¼-28
	9506 Adhesive Cement (tube)
	9506-D Debonder for Adhesive Cement (1.75 oz. bottle)
	9508 Petro Wax (1 oz.)
	9509-1 Mounting Screw, M5
	9510 M8 / ¼-28 Mounting Stud

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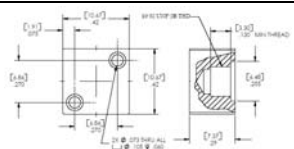
Cables and Accessories Isolated Mounting Studs

Model	Description
	9505-1 Stud, Isolated, M5/10-32
	9505-2 Stud, Isolated, M6/ ¼-28
	9505-3 Stud, Isolated, M3/10-32
	9505-8 Stud, Isolated, 10-32/10-32
	9505-9 Stud, Isolated, 10-32/ ¼-28
	9505-10 Stud, Isolated, ¼-28 / ¼-28
	9505-11 Stud, Isolated, 10-32 with 0.50" hex plate for adhesive mounting
	9505-15 Stud, Isolated, 10-32 with 0.75" hex plate for adhesive mounting
	9505-16 Stud, Isolated, 10-32 with 1.25" hex plate for adhesive mounting
	9505-13 Magnetic Mount Base, 10-32 tapped hole
9505-14 Magnetic Mount Base, 10-32 stud	

Cable Adapters

Model	Description
	9601 M5/10-32
	9603 10-32 Coaxial Receptacle to BNC Receptacle
	9604 10-32/10-32
	9605 10-32 Coaxial Receptacle to BNC Plug
	9606 Protective Coaxial Cap

Mounting Blocks

Model	Description
	9701 Triaxial Block, 10-32
	9702 Triaxial Block, Adhesive
	9703 Triaxial Block, for VIP 1022A
	9704 Triaxial Block, for VIP 1021A

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Calibration Services

VIP Sensors offers Calibration Services for most standard accelerometers. Should a customer wish to have calibrated an accelerometer other than a VIP Sensors' model, they should consult with VIP Sensors or with their local VIP Sensors' Representative prior to shipping the unit(s). All calibrations performed by Precision Labs; A2LA Certificate #2405.01; ISO 9001:2000 Certificate US-3242 (Intertek).

Model	DESCRIPTION
SC20-1	Shock Comparison Cal, 1 Point, 20g to 10kg
SC20-5	Shock Comparison Cal, 5 Points, 20g to 10kg
SC22-1	Shock System Sensitivity, 1 Point, 20g to 10kg
SC22-5	Shock System Sensitivity, 5 Points, 20g to 10kg
VC1	Comparison Cal, to 10 kHz, thru resonance, no transverse
VC11	Comparison Cal, Low Frequency from 1 Hz, no transverse
VC15	System Sensitivity Adjustment
VC12	Comparison Cal, Combined High & Low, no transverse
VC15 (add S)	System Cal (add to price of VC Comparison Cal)
(add T)	3-axis accel (multiply by price of VC Comparison Cal)
VC14	EVM Cal, no FAA, no transverse
VC18	Cal of Portable Calibrator

Terms & Conditions

Calibration Services

Should VIP Sensors' accept the unit(s) to be recalibrated, an RMA number will be issued to accompany the returned units. Customer is responsible for shipping cost to and from VIP Sensors. Unit(s) for recalibration should be shipped to:

RMA #
 c/o VIP Sensors
 32242 Paseo Adelanto, Suite C
 San Juan Capistrano, CA 92675
 (949) 429-3558

Warranty

Products provided by VIP Sensors are covered by a limited warranty against defective material and workmanship for a period of one year after delivery. If the returned product is proven to be defective, VIP Sensors has the option to repair or replace the product. Please contact VIP Sensors for a Return Material Authorization (RMA) number prior to returning any product.

Shipping

All orders are shipped FOB shipping point, San Juan Capistrano, California. Shipping charges are prepaid and added to the invoice, unless otherwise specified. Should a customer wish to specify a preferred carrier, they can do so at placement of order.

Ordering Information

All orders can be placed directly with VIP Sensors or through an authorized Representative. VIP Sensors accepts Visa and MasterCard. Net 30 Days terms available on approved credit.