

LOW COST ICP® ACCELEROMETERS



pcb.com/imi-sensors | 1 800 959 4464

LOW COST ICP® ACCELEROMETERS

IMI Sensors offers a wide range of ICP[®] accelerometers with an AC voltage output. These accelerometers are ideal for routebased and permanently-mounted predictive maintenance applications. The AC voltage output can interface with third-party data collectors or other online monitoring systems for analysis.

ICP[®] accelerometers operate on a simple, two-wire system consists of an 18-30 VDC power source, current-regulating diode, voltmeter and decoupling capacitor.

- 18-30 VDC Power Source: Supply voltage can be provided by line or battery power. Most line-powered signal
 conditioners supply 24 VDC power as they are connected to an external 24VDC power source. The power
 provided by a battery-powered signal conditioner can vary depending on the number and voltage of the batteries.
- Current-Regulating Diode: ICP[®] accelerometers require a fixed constant current between 2 and 20 mA so the power must pass through a current-regulating diode. There is an approximate 1V drop across the diode.
- Voltmeter: The power is transmitted to the ICP[®] accelerometer via two-conductor cable with one conductor acting as the ground and the other conductor transmitting both the power to the sensor and the output signal from the sensor. The portion of the voltage used to power the accelerometer's amplifier is called the bias voltage and is usually in the range of 8-12 VDC. The voltmeter monitors this bias voltage and is useful for checking sensor operation. The output signal is an AC dynamic signal that rides on top of the bias voltage.
- Decoupling Capacitor: When the output signal is received at the signal conditioner, the DC bias voltage must be decoupled from the AC signal voltage in order to record accurate data. The 10-30 µF capacitor shifts the signal level to essentially eliminate the sensor bias voltage, providing a drift-free AC mode operation.

LOW-COST VS. PRECISION

IMI Sensors' ICP[®] accelerometer product offering can be divided into two categories- low cost and precision. The table below highlights the difference between the two product categories.

Characteristics	Low Cost	Precision
Construction	Embeddable pellet	Shear-mode element
Calibration	Single point	Frequency sweep
Sensitivity Tolerance	Less tight	Tighter
Price	Lower	Higher



OPTIONAL SENSITIVITIES AND FEATURES

Most models listed in this brochure are available with alternate sensitivities and optional features. Alternate sensitivities are 10 mV/g, 50 mV/g and 500 mV/g. Optional features are indicated by a prefixed model number; to select any of the below-listed features, add the appropriate prefix to the core model number. All prefixes can be combined except EXHT and HTTO. When selecting a prefixed model, refer to model-specific outline drawings as some prefixed models' dimensions differ slightly from their unprefixed model equivalents.

Optional Feature	Prefix	Description
Hazardous Area Approval	EX	Accelerometer is certified for use in potentially explosive environments via ATEX, CSA and IECEx. Available on 602, 603, 606, 607 and 608 Series.
High Temperature Range	HT	Accelerometer's operating temperature range is increased from +250 °F (+121°C) to +325 °F (+163 °C). Available on 602 Series.
Metric Mount	Μ	Accelerometer includes an M6x1 mounting stud or bolt instead of a 1/4-28 mounting stud or bolt. Available on all series.
Temperature Output	TO	Accelerometer includes a built-in temperature sensor and provides a DC voltage temperature output in addition to the AC voltage vibration output. To transmit the second signal, accelerometer has one additional pin (connector version) or one/two cable conductors (integral cable version). Available on all series.

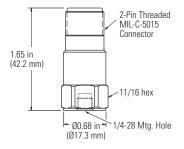
LOW NOISE ICP® ACCELEROMETER



ACCELEROMETER WITH MIL CONNECTOR

MODEL 601A01

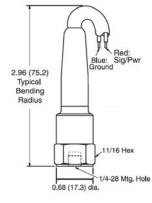
- Excellent signal-to-noise ratio
- Low noise floor



601 Series

requency Range (±3 dB) Resonant Frequency Broadband Resolution (1 to 10000 Hz) Jon-Linearity fransverse Sensitivity Environmental Uverload Limit (Shock) iernperature Range inclosure Rating Electrical Stotation Voltage Constant Current Excitation Dutput Impedance Dutput Imgedance Dutput Isia Voltage Spectral Isolation (Case) Physical Sensing Element Sensing Geometry dousing Material Sealing Auouting Thread	
Resonant Frequency Broadband Resolution (1 to 10000 Hz) Non-Linearity Transverse Sensitivity Environmental Overload Limit (Shock) Temperature Range Enclosure Rating Electrical Settling Time (within 1% of bias) Discharge Time Constant Excitation Voltage Constant Current Excitation Output Bias Voltage Spectral Noise (10 Hz) Spectral Isolation (Case) Physical Sensing Element Sensing Geometry Housing Material Sealing Mounting Thread	100 mV/g 10.2 mV/(m/s²)
Transverse Sensitivity Environmental Overload Limit (Shock) Temperature Range Enclosure Rating Electrical Setting Time (within 1% of bias) Discharge Time Constant Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage Spectral Noise (10 Hz) Spectral Noise (10 Hz) Spectral Noise (10 Hz) Spectral Isolation (Case) Physical Sensing Element Sensing Geometry Housing Material Sealing Mounting Thread	±50 g ±490 m/s²
Broadband Resolution (1 to 10000 Hz) Non-Linearity Transverse Sensitivity Environmental Overload Limit (Shock) Temperature Range Enclosure Rating Electrical Settling Time (within 1% of bias) Discharge Time Constant Excitation Voltage Constant Current Excitation Output Bias Voltage Spectral Noise (10 Hz) Spectral Noise (100 Hz) Spectral Isolation (Case) Physical Sensing Element Sensing Geometry Housing Material Sealing Mounting Thread	0.27 to 10000 Hz
Non-Linearity Image: Constant Sector Sec	16 kHz
Transverse Sensitivity Environmental Overload Limit (Shock) Temperature Range Enclosure Rating Electrical Settling Time (within 1% of bias) Discharge Time Constant Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage Spectral Noise (10 Hz) Spectral Noise (10 Hz) Spectral Isolation (Case) Physical Sensing Element Sensing Geometry Housing Material Sealing Mounting Thread	50 μg 491 μm/s²
Environmental Overload Limit (Shock) Temperature Range Enclosure Rating Electrical Settling Time (within 1% of bias) Discharge Time Constant Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage Spectral Noise (10 Hz) Spectral Noise (100 Hz) Spectral Isolation (Case) Physical Sensing Element Sensing Geometry Housing Material Sealing Mounting Thread	±1 %
Overload Limit (Shock) Temperature Range Enclosure Rating Electrical Settling Time (within 1% of bias) Discharge Time Constant Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage Spectral Noise (10 Hz) Spectral Noise (100 Hz) Spectral Isolation (Case) Physical Sensing Element Sensing Geometry Housing Material Sealing Mounting Thread	≤7 %
Temperature Range Enclosure Rating Electrical Settling Time (within 1% of bias) Discharge Time Constant Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage Spectral Noise (10 Hz) Spectral Noise (10 Hz) Spectral Noise (10 Hz) Spectral Isolation (Case) Physical Sensing Element Sensing Geometry Housing Material Sealing Mounting Thread	
Enclosure Rating Electrical Settling Time (within 1% of bias) Discharge Time Constant Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage Spectral Noise (10 Hz) Spectral Noise (10 Hz) Spectral Noise (10 Hz) Electrical Isolation (Case) Physical Sensing Element Sealing Mounting Thread	5000 g pk 49050 m/s² pk
Electrical Settling Time (within 1% of bias) Discharge Time Constant Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage Spectral Noise (10 Hz) Spectral Noise (10 Hz) Spectral Noise (10 Hz) Electrical Isolation (Case) Physical Sensing Element Sensing Geometry Housing Material Sealing Mounting Thread	-65 to +250 °F -54 to +121 °C
Settling Time (within 1% of bias) Discharge Time Constant Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage Spectral Noise (10 Hz) Spectral Noise (10 Hz) Spectral Noise (1 kHz) Electrical Isolation (Case) Physical Sensing Element Sensing Geometry Housing Material Sealing Mounting Thread	IP68
Discharge Time Constant Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage Spectral Noise (10 Hz) Spectral Noise (10 Hz) Electrical Isolation (Case) Physical Sensing Element Sensing Geometry Housing Material Sealing Mounting Thread	
Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage Spectral Noise (10 Hz) Spectral Noise (10 Hz) Electrical Isolation (Case) Physical Sensing Element Sensing Geometry Housing Material Sealing Mounting Thread	≤4.0 sec
Constant Current Excitation Output Impedance Output Bias Voltage Spectral Noise (10 Hz) Spectral Noise (10 Hz) Spectral Noise (10 Hz) Electrical Isolation (Case) Physical Sensing Element Sensing Geometry Housing Material Sealing Mounting Thread	≥0.6 sec
Output Impedance Output Bias Voltage Spectral Noise (10 Hz) Spectral Noise (100 Hz) Spectral Noise (1 kHz) Electrical Isolation (Case) Physical Sensing Element Sensing Geometry Housing Material Sealing Mounting Thread	18 to 28 VDC
Output Bias Voltage Spectral Noise (10 Hz) Spectral Noise (100 Hz) Spectral Noise (1 kHz) Electrical Isolation (Case) Physical Sensing Element Sensing Geometry Housing Material Sealing Mounting Thread	2 to 20 mA
Spectral Noise (10 Hz) Spectral Noise (10 Hz) Spectral Noise (10 Hz) Spectral Noise (1 kHz) Electrical Isolation (Case) Physical Sensing Element Sensing Geometry Housing Material Sealing Mounting Thread	<150 Ohm
Spectral Noise (100 Hz) Spectral Noise (1 kHz) Electrical Isolation (Case) Physical Sensing Element Sensing Geometry Housing Material Sealing Mounting Thread	8 to 12 VDC
Spectral Noise (1 kHz) Electrical Isolation (Case) Physical Sensing Element Sensing Geometry Housing Material Sealing Mounting Thread	3.2 µg/√Hz
Electrical Isolation (Case) Physical Sensing Element Sensing Geometry Housing Material Sealing Mounting Thread	1.0 µg/√Hz
Physical Sensing Element Sensing Geometry Housing Material Sealing Mounting Thread	0.7 µg/√Hz
Sensing Element Sensing Geometry Housing Material Sealing Mounting Thread	>10 ⁸ Ohm
Sensing Geometry Housing Material Sealing Mounting Thread	
Housing Material Sealing Mounting Thread	Ceramic
Sealing Mounting Thread	Shear
Mounting Thread	Stainless Steel
	Welded Hermetic
	1/4-28 Female
Mounting Torque	2 to 5 ft-lb 2.7 to 6.8 Nm
Electrical Connector	2-Pin MIL-C-5015
Electrical Connection Position	Тор
Weight	2.8 oz 80 gm





ACCELEROMETER WITH INTEGRAL POLYURETHANE CABLE MODEL 601A11

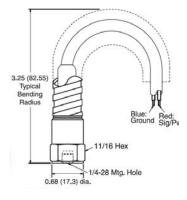
• Configurable cable length and terminating connector



ACCELEROMETER WITH INTEGRAL ARMORED POLYURETHANE CABLE

MODEL 601A61

 Configurable cable length, armor length and terminating connector



SIDE EXIT ICP® ACCELEROMETER

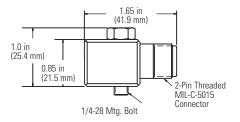
602 Series



ACCELEROMETER WITH MIL CONNECTOR

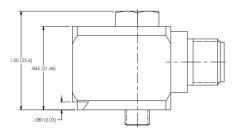
MODEL 602D01

- Low profile housing
- Side exit, through-bolt design



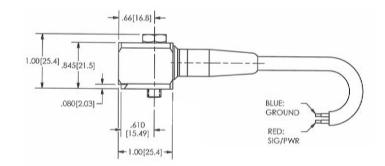
SPECIFICATIONS	
Performance	
Sensitivity (±10%)	100 mV/g 10.2 mV/(m/s²)
Measurement Range	±50 g ±490 m/s²
Frequency Range (±3 dB)	0.5 to 8000 Hz
Resonant Frequency	25 kHz
Broadband Resolution (1 to 10000 Hz)	350 μg 3434 μm/s²
Non-Linearity	±1 %
Transverse Sensitivity	≤7 %
Environmental	
Overload Limit (Shock)	5000 g pk 49050 m/s² pk
Temperature Range	-65 to +250 °F -54 to +121 °C
Enclosure Rating	IP68
Electrical	
Settling Time (within 1% of bias)	≤2.0 sec
Discharge Time Constant	≥0.3 sec
Excitation Voltage	18 to 28 VDC
Constant Current Excitation	2 to 20 mA
Output Impedance	<150 Ohm
Output Bias Voltage	8 to 12 VDC
Spectral Noise (10 Hz)	8 μg/√Hz
Spectral Noise (100 Hz)	5 µg/√Hz
Spectral Noise (1 kHz)	4 μg/√Hz
Electrical Isolation (Case)	>108 Ohm
Physical	
Sensing Element	Ceramic
Sensing Geometry	Shear
Housing Material	Stainless Steel
Sealing	Welded Hermetic
Mounting Thread	1/4-28 Male
Mounting Torque	2 to 5 ft-lb 2.7 to 6.8 Nm
Electrical Connector	2-Pin MIL-C-5015
Electrical Connection Position	Side
Weight	2.61 oz 74.0 g
Accessories	
Model 081B97: Mounting bolt, 1/4-28 x 1.0"	





ACCELEROMETER WITH M12 CONNECTOR

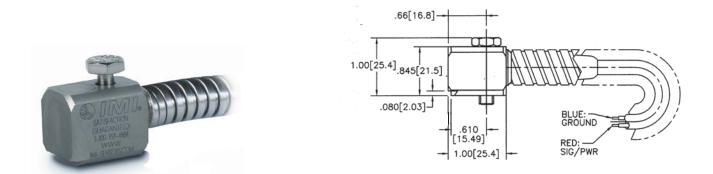
MODEL 602D91



ACCELEROMETER WITH INTEGRAL POLYURETHANE CABLE

MODEL 602D11

Configurable cable length and terminating connector



ACCELEROMETER WITH INTEGRAL ARMORED POLYURETHANE CABLE

MODEL 602D61

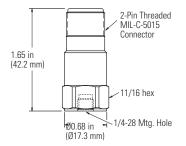
Configurable cable length, armor length and terminating connector

TOP EXIT ICP® ACCELEROMETER

ACCELEROMETER WITH MIL CONNECTOR

MODEL 603C01

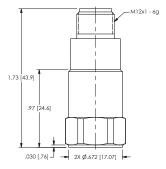
- Small size, top exit connector
- IMI's most popular accelerometer



603 Series

Performance	
Sensitivity (±10%)	100 mV/g 10.2 mV/(m/s²)
Measurement Range	±50 g ±490 m/s²
Frequency Range (±3 dB)	0.5 to 10000 Hz
Resonant Frequency	25 kHz
Broadband Resolution (1 to 10000 Hz)	350 μg 3434 μm/s²
Non-Linearity	±1 %
Transverse Sensitivity	≤7 %
Environmental	
Overload Limit (Shock)	5000 g pk 49050 m/s² pk
Temperature Range	-65 to +250 °F -54 to +121 °C
Enclosure Rating	IP68
Electrical	
Settling Time (within 1% of bias)	≤2.0 sec
Discharge Time Constant	≥0.3 sec
Excitation Voltage	18 to 28 VDC
Constant Current Excitation	2 to 20 mA
Output Impedance	<150 Ohm
Output Bias Voltage	8 to 12 VDC
Spectral Noise (10 Hz)	8 µg/√Hz
Spectral Noise (100 Hz)	5 µg/√Hz
Spectral Noise (1 kHz)	4 µg/√Hz
Electrical Isolation (Case)	>10 ⁸ Ohm
Physical	
Sensing Element	Ceramic
Sensing Geometry	Shear
Housing Material	Stainless Steel
Sealing	Welded Hermetic
Mounting Thread	1/4-28 Female
Mounting Torque	2 to 5 ft-lb 2.7 to 6.8 Nm
Electrical Connector	2-Pin MIL-C-5015
Electrical Connection Position	Тор
Weight	1.8 oz 51 g
Accessories	





ACCELEROMETER WITH M12 CONNECTOR

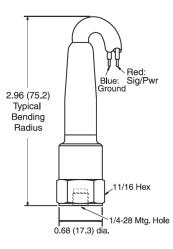
MODEL 603C91



ACCELEROMETER WITH INTEGRAL POLYURETHANE CABLE

MODEL 603C11

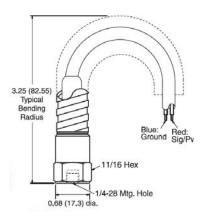
• Configurable cable length and terminating connector





ACCELEROMETER WITH INTEGRAL ARMORED POLYURETHANE CABLE MODEL 603C61

• Configurable cable length, armor length and terminating connector



RING STYLE ICP® ACCELEROMETER

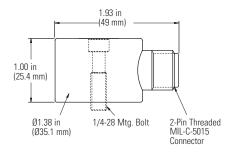
606 Series



ACCELEROMETER WITH MIL CONNECTOR

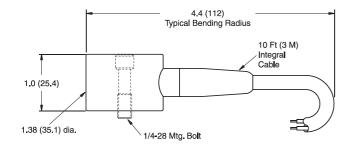
MODEL 606B01

- Side exit connector
- Through bolt aids in cable orientation



Performance	
Sensitivity (±10%)	100 mV/g 10.2 mV/(m/s ²)
Measurement Range	±50 g ±490 m/s²
Frequency Range (±3 dB)	0.5 to 10000 Hz
Resonant Frequency	25 kHz
Broadband Resolution (1 to 10000 Hz)	350 μg 3434 μm/s²
Non-Linearity	±1 %
Transverse Sensitivity	≤7 %
Environmental	
Overload Limit (Shock)	5000 g pk 49050 m/s² pk
Temperature Range	-65 to +250 °F -54 to +121 °C
Enclosure Rating	IP68
Electrical	
Settling Time (within 1% of bias)	≤2.0 sec
Discharge Time Constant	≥0.3 sec
Excitation Voltage	18 to 28 VDC
Constant Current Excitation	2 to 20 mA
Output Impedance	<150 Ohm
Output Bias Voltage	8 to 12 VDC
Spectral Noise (10 Hz)	8 µg/√Hz
Spectral Noise (100 Hz)	5 µg/√Hz
Spectral Noise (1 kHz)	4 µg/√Hz
Electrical Isolation (Case)	>108 Ohm
Physical	
Sensing Element	Ceramic
Sensing Geometry	Shear
Housing Material	Stainless Steel
Sealing	Welded Hermetic
Mounting Thread	1/4-28 Male
Mounting Torque	2 to 5 ft-lb 2.7 to 6.8 Nm
Electrical Connector	2-Pin MIL-C-5015
Electrical Connection Position	Side
Weight	4.4 oz 124 g
Accessories	





ACCELEROMETER WITH INTEGRAL POLYURETHANE CABLE MODEL 606B11

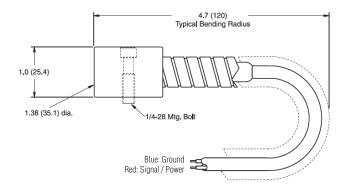
• Configurable cable length and terminating connector



ACCELEROMETER WITH INTEGRAL ARMORED POLYURETHANE CABLE

MODEL 606B61

• Configurable cable length, armor length and terminating connector



SWIVEL BASE ICP® ACCELEROMETER

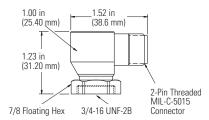
607 Series



ACCELEROMETER WITH MIL CONNECTOR

MODEL 607A01

- Patented 360° swivel mount design
- Simple installation with cable able to be positioned in any direction



-	100 mV/g 10.2 mV/(m/s²) ±50 g
Measurement Range Frequency Range (±3 dB)	+50 a
Frequency Range (±3 dB)	±490 m/s ²
	0.5 to 10000 Hz
Resonant Frequency	18 kHz
Broadband Resolution (1 to 10000 Hz)	350 μg 3434 μm/s²
Non-Linearity	±1 %
Transverse Sensitivity	≤7 %
Environmental	
Overload Limit (Shock)	5000 g pk 49050 m/s² pk
Temperature Range	-65 to +250 °F -54 to +121 °C
Enclosure Rating	IP68
Electrical	
Settling Time (within 1% of bias)	≤2.0 sec
Discharge Time Constant	≥0.3 sec
Excitation Voltage	18 to 28 VDC
Constant Current Excitation	2 to 20 mA
Output Impedance	<150 Ohm
Output Bias Voltage	8 to 12 VDC
Spectral Noise (10 Hz)	8 µg/√Hz
Spectral Noise (100 Hz)	5 µg/√Hz
Spectral Noise (1 kHz)	4 μg/√Hz
Electrical Isolation (Case)	>10 ⁸ Ohm
Physical	
Sensing Element	Ceramic
Sensing Geometry	Shear
Housing Material	Stainless Steel
Sealing	Welded Hermetic
Mounting Thread	1/4-28 Male
Mounting Torque (Stud)	3 to 4 ft-lb 4.1 to 5.4 Nm
Mounting Torque (Hex Nut)	2 to 3 ft-lb 2.7 to 4.1 Nm
Electrical Connector	2-Pin MIL-C-5015
Electrical Connection Position	Side
Weight	3.7 oz 105 g
Accessories	

SWIVELER® ICP® ACCELEROMETER

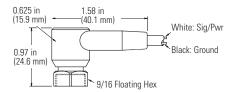
607 Series



ACCELEROMETER WITH INTEGRAL **POLYURETHANE CABLE**

MODEL 607A11

- World's smallest industrial accelerometer to easily fits in tight spaces
- Patented 360° swivel mount design provides hassle-free cable orientation



SPECIFICATIONS	
Performance	
Sensitivity (±15%)	100 mV/g 10.2 mV/(m/s²)
Measurement Range	±50 g ±490 m/s²
Frequency Range (±3 dB)	0.5 to 10000 Hz
Resonant Frequency	25 kHz
Broadband Resolution (1 to 10000 Hz)	350 μg 3434 μm/s²
Non-Linearity	±1 %
Transverse Sensitivity	≤7 %
Environmental	
Overload Limit (Shock)	5000 g pk 49050 m/s² pk
Temperature Range	-65 to +250 °F -54 to +121 °C
Enclosure Rating	IP68
Electrical	
Settling Time (within 1% of bias)	≤2.0 sec
Discharge Time Constant	≥0.3 sec
Excitation Voltage	18 to 28 VDC
Constant Current Excitation	2 to 20 mA
Output Impedance	<150 Ohm
Output Bias Voltage	8 to 12 VDC
Spectral Noise (10 Hz)	8 µg/√Hz
Spectral Noise (100 Hz)	5 µg/√Hz
Spectral Noise (1 kHz)	4 µg/√Hz
Electrical Isolation (Case)	>10 ⁸ Ohm
Physical	
Sensing Element	Ceramic
Sensing Geometry	Shear
Housing Material	Stainless Steel
Sealing	Welded Hermetic
Mounting Thread	1/4-28 Male
Mounting Torque (Stud)	3 to 4 ft-lb 4.1 to 5.4 Nm
Mounting Torque (Hex Nut)	2 to 3 ft-lb 2.7 to 4.1 Nm
Electrical Connector	Molded Integral Cable
Electrical Connection Position	Side
Weight	1.1 oz 31 g
Accessories	
Model 080A156: Mounting stud, 1/2-20 to 1/4-28	
······································	

SPINDLER® ICP® ACCELEROMETER

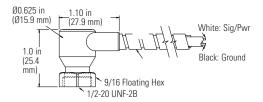
607 Series



ACCELEROMETER WITH INTEGRAL ARMORED POLYURETHANE CABLE

MODEL 607A61

- World's smallest industrial accelerometer to easily fits in tight spaces
- Patented 360° swivel mount design provides hassle-free cable orientation



SPECIFICATIONS	
Performance	
Sensitivity (±15%)	100 mV/g 10.2 mV/(m/s²)
Measurement Range	±50 g ±490 m/s²
Frequency Range (±3 dB)	0.5 to 10000 Hz
Resonant Frequency	25 kHz
Broadband Resolution (1 to 10000 Hz)	350 μg 3434 μm/s²
Non-Linearity	±1 %
Transverse Sensitivity	≤7 %
Environmental	
Overload Limit (Shock)	5000 g pk 49050 m/s² pk
Temperature Range	-65 to +250 °F -54 to +121 °C
Enclosure Rating	IP67
Electrical	
Settling Time (within 1% of bias)	≤2.0 sec
Discharge Time Constant	≥0.3 sec
Excitation Voltage	18 to 28 VDC
Constant Current Excitation	2 to 20 mA
Output Impedance	<150 Ohm
Output Bias Voltage	8 to 12 VDC
Spectral Noise (10 Hz)	8 µg/√Hz
Spectral Noise (100 Hz)	5 µg/√Hz
Spectral Noise (1 kHz)	4 μg/√Hz
Electrical Isolation (Case)	>108 Ohm
Physical	
Sensing Element	Ceramic
Sensing Geometry	Shear
Housing Material	Stainless Steel
Sealing	Welded Hermetic
Mounting Thread	1/4-28 Male
Mounting Torque (Stud)	3 to 4 ft-lb 4.1 to 5.4 Nm
Mounting Torque (Hex Nut)	2 to 3 ft-lb 2.7 to 4.1 Nm
Electrical Connector	Integral Armored Cable
Electrical Connection Position	Side
Weight	1.1 oz 31 g
Accessories	
Model 080A156: Mounting stud, 1/2-20 to	1/4-28
- / ·	

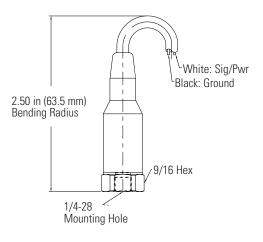
SMALL FOOTPRINT ICP® ACCELEROMETER



ACCELEROMETER WITH INTEGRAL CABLE

MODEL 608A11

Smallest footprint of any industrial accelerometer



608 Series

Performance	
Sensitivity (±10%)	100 mV/g 10.2 mV/(m/s²)
Measurement Range	±50 g ±490 m/s²
Frequency Range (±3 dB)	0.5 to 10000 Hz
Resonant Frequency	22 kHz
Broadband Resolution (1 to 10000 Hz)	350 μg 3434 μm/s²
Non-Linearity	±1 %
Transverse Sensitivity	≤7 %
Environmental	
Overload Limit (Shock)	5000 g pk 49050 m/s² pk
Temperature Range	-65 to +250 °F -54 to +121 °C
Enclosure Rating	IP68
Electrical	
Settling Time (within 1% of bias)	≤2.0 sec
Discharge Time Constant	≥0.3 sec
Excitation Voltage	18 to 28 VDC
Constant Current Excitation	2 to 20 mA
Output Impedance	<150 Ohm
Output Bias Voltage	8 to 12 VDC
Spectral Noise (10 Hz)	8 µg/√Нz
Spectral Noise (100 Hz)	5 μg/√Hz
Spectral Noise (1 kHz)	4 µg/√Hz
Electrical Isolation (Case)	>10 ⁸ Ohm
Physical	
Sensing Element	Ceramic
Sensing Geometry	Shear Stainless Steel
Housing Material	Molded
Sealing Mounting Thread	1/4-28 Female
	,
Mounting Torque	2 to 5 ft-lb 2.7 to 6.8 Nm
Electrical Connector	Integral Cable
Electrical Connection Position	Тор
Cable Type	Polyurethane 3.5 oz 99.3 g
Accessories	





3425 Walden Avenue, Depew, NY 14043-2495 USA Toll-Free in the USA: **800 959 4464** Phone: **1 716 684 0001** | Email: **info@pcb.com** IMI Sensors, a division of PCB Piezotronics, Inc. manufactures industrial vibration monitoring instrumentation, such as accelerometers, vibration transmitters and switches that feature rugged stainless steel housings and survive in harsh environments like paper and steel mills, mines, gas turbines, water treatment facilities and power plants. Integrating with portable analyzers and PLC's, IMI instrumentation helps maintenance departments reduce downtime and protect critical machinery. Visit IMI Sensors at www.pcb.com.

© 2020 PCB Piezotronics, Inc. In the interest of constant product improvement, specifications are subject to change without notice. PCB®, ICP®, Swiveler®, Modally Tuned®, and IMI® with associated logo are registered trademarks of PCB Piezotronics, Inc. in the United States. ICP® is a registered trademark of PCB Piezotronics Europe GmbH in Germany and other countries. UHT-12TM is a trademark of PCB Piezotronics, Inc. SensorLineSM is a service mark of PCB Piezotronics. Inc. IMI-VIB-LowCostAccels-0620