



MODEL 356A06

MINIATURE TRIAxIAL ICP® ACCELEROMETER



FOR WHEN MINIMAL MASS LOADING AND SIZE MATTERS

- Small 0.25 (6.4 mm) adhesive mount cube
- Mini 8-36 4-Pin Jack
- High overload limit of 10000 g
- 10 ft (3 m) mating cable assembly with triaxial BNC plug termination included (except /NC model)

TYPICAL APPLICATIONS

- Small component qualification
- Structural vibration
- Environmental Stress Screening
- Noise Vibration & Harshness
- Vibration measurements with space restrictions

Model 356A06 provides a 5 mV/g sensitivity with 1000 g full scale range as well as a wide frequency range for general vibration testing. It includes a lower noise floor and higher shock limit than competitive offerings with a hermetically sealed titanium housing. The mini 8-36 4-pin jack allows for simple cable replacement and sensor mounting, and makes it the smallest ICP® triaxial accelerometer with a connector. With a 1 gm (0.04 oz) weight, this sensor is excellent for testing very small components to avoid mass loading mass loading.

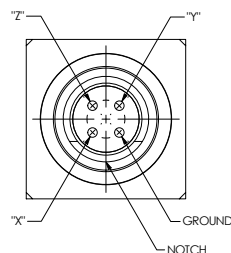
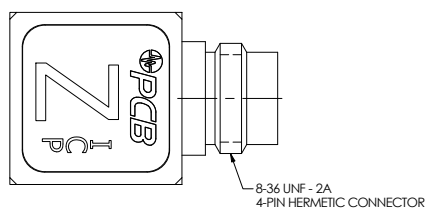
Sensor power can be from any ICP® compatible signal conditioner or data acquisition system that provides 18 to 30 VDC, and 2 to 20 mA of constant current. This product is CE marked for sale globally.



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SPECIFICATIONS

Model Number	356A06 & 356A06/NC	
	English	SI
Performance		
Sensitivity ($\pm 20\%$)	5 mV/g	0.51 mV/(m/s ²)
Measurement Range	± 1000 g pk	± 9810 m/s ² pk
Frequency Range ($\pm 5\%$)	2 to 8000 Hz (y or z axis) 2 to 5000 Hz (x axis)	
Frequency Range (+1 dB)(x axis)	≥ 8 kHz	
Resonant Frequency	≥ 50 kHz	
Broadband Resolution (1 to 10000 Hz)	0.003 g rms	0.03 m/s ² rms
Non-Linearity	$\leq 1\%$	
Transverse Sensitivity	$\leq 5\%$	
Environmental		
Overload Limit (Shock)	± 10000 g pk	± 98100 m/s ² pk
Temperature Range (Operating)	-65 to +250 °F	-54 to +121 °C
Electrical		
Excitation Voltage	18 to 30 VDC	
Constant Current Excitation	2 to 20 mA	
Output Impedance	≤ 200 ohm	
Output Bias Voltage	7 to 12 VDC	
Discharge Time Constant	0.24 to 1.0 sec	
Settling Time (within 10% of bias)	< 3 sec	
Spectral Noise (1 Hz)	1200 $\mu\text{g}/\sqrt{\text{Hz}}$	11772 ($\mu\text{m}/\text{sec}^2$)/ $\sqrt{\text{Hz}}$
Spectral Noise (10 Hz)	300 $\mu\text{g}/\sqrt{\text{Hz}}$	2943 ($\mu\text{m}/\text{sec}^2$)/ $\sqrt{\text{Hz}}$
Spectral Noise (100 Hz)	100 $\mu\text{g}/\sqrt{\text{Hz}}$	981 ($\mu\text{m}/\text{sec}^2$)/ $\sqrt{\text{Hz}}$
Spectral Noise (1 kHz)	30 $\mu\text{g}/\sqrt{\text{Hz}}$	294 ($\mu\text{m}/\text{sec}^2$)/ $\sqrt{\text{Hz}}$
Physical		
Element / Housing Materials	Shear Ceramic / Hermetic Titanium	
Size (Height x Length x Width)	0.25 x 0.25 x 0.25 in	6.35 x 6.35 x 6.35 mm
Weight (without cable)	0.04 oz	1.0 gm
Electrical Connector	8-36 4-Pin	
Electrical Connection Position	Side	
Mounting	Adhesive	
Accessories		
Model 080A109 Petro Wax Model 080A90 Quick Bonding Gel Calibration per ACS-1T, NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency Model 034K10 4-cond. Shielded cable, 10 ft (3 M), Mini 4-pin plug to (3) BNC plugs Not included with/NC models		



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TM-VIB-356A06-1020

MTS
SENSORS

MTS Sensors, a division of MTS Systems Corporation (NASDAQ: MTSC), vastly expanded its range of products and solutions after MTS acquired PCB Piezotronics, Inc. in July, 2016. PCB Piezotronics, Inc. is a wholly owned subsidiary of MTS Systems Corp.; IMI Sensors and Larson Davis are divisions of PCB Piezotronics, Inc.; Accumetrics, Inc. and The Modal Shop, Inc. are subsidiaries of PCB Piezotronics, Inc.

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v24.03.21

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