



Miniature Triaxial ICP® Accelerometer



Actual Size

Model 356A03 Miniature Triaxial ICP® Accelerometer

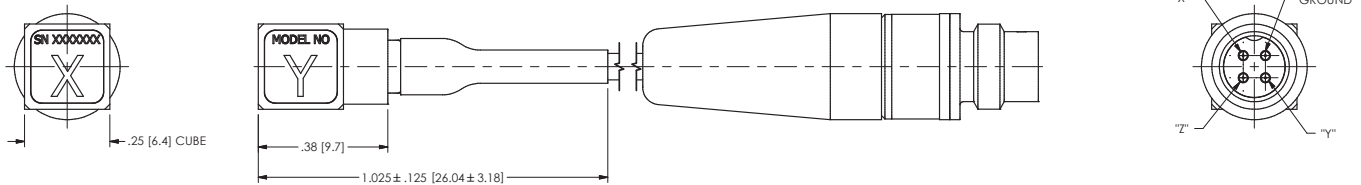
Model 356A03 is in the same package as model 356A01, but provides a higher 10 mV/g sensitivity. This model includes a hermetic seal design with a lower noise floor and higher shock limit than competitive offerings. The integral cable features a rugged strain relief connection with a large and strong crimp tube that provides excellent shear and tensile strength. The 356A03 is compatible with any ICP® signal conditioner or readout device that includes ICP® power. This product is CE marked and is a Platinum Stock Sensor.

Highlights

- High 10 mV/g sensitivity in a miniature 0.25" (6.3 mm) cube
- Hermetically sealed titanium housing for enhanced reliability
- High 5000 g overload limit
- Supplied mating cable assembly terminating in BNC plugs

Applications

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



Technical Specifications		
	English	SI
Sensitivity(± 20 %)	10 mV/g	1.02 mV/(m/s ²)
Measurement Range	± 500 g pk	± 4905 m/s ² pk
Frequency Range(± 5 %)(y or z axis)	2 to 8000 Hz	2 to 8000 Hz
Frequency Range(± 5 %)(x axis)	2 to 5000 Hz	2 to 5000 Hz
Frequency Range(+1 dB)(x axis)		≥ 8 kHz
Resonant Frequency		≥ 50 kHz
Broadband Resolution (1 to 10,000 Hz)	0.003 g rms	0.03 m/s ² rms
Non-Linearity		≤ 1 %
Transverse Sensitivity		≤ 5 %
Environmental		
Overload Limit(Shock)	± 5000 g pk	± 49,050 m/s ² pk
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C
Electrical		
Excitation Voltage		22 to 30 VDC
Constant Current Excitation		2 to 20 mA
Output Impedance		≤ 100 ohm
Output Bias Voltage		9 to 16 VDC
Discharge Time Constant		0.24 to 1.0 sec
Settling Time(within 10% of bias)		<3 sec
Spectral Noise(1 Hz)	1200 µg/√Hz	11,772 (µm/sec ²)/√Hz
Spectral Noise(10 Hz)	300 µg/√Hz	2943 (µm/sec ²)/√Hz
Spectral Noise(100 Hz)	100 µg/√Hz	981 (µm/sec ²)/√Hz
Spectral Noise(1 kHz)	30 µg/√Hz	294 (µm/sec ²)/√Hz
Physical		
Sensing Element		Ceramic
Sensing Geometry		Shear
Housing Material		Titanium
Sealing		Hermetic
Size (Height x Length x Width)	0.25 in x 0.25 in x 0.25 in	6.35 mm x 6.35 mm x 6.35 mm
Weight(without cable)	0.04 oz	1.0 gm
Electrical Connector		Integral Cable
Electrical Connection Position		Side
Cable Termination		1/4-28 4-Pin Jack
Cable Length	5 ft	1.5 m
Cable Type		034 4-cond Shielded
Mounting		Adhesive
Supplied Accessories:		
Model 034G05 4-cond. shielded cable, 5 ft (1.5M), 4-pin plug to (3) BNC plugs (1)	Model 080A109 Petro Wax (1)	Model 080A90 Quick Bonding Gel (1)
		Model ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1)
All specifications are at room temperature unless otherwise specified		

Additional Versions

PCB Model 356A01 is a similar unit, but with a 5 mV/g sensitivity providing a higher ± 1000 g measurement range

ICP® Signal Conditioners



Model 482C05
4 Channel Line Powered



Model 480B21
3 Channel Battery Powered



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AS9100 CERTIFIED ■ ISO 9001 CERTIFIED ■ A2LA ACCREDITED to ISO 17025

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