

Model Number

356A32

TRIAxIAL ICP® ACCELEROMETER

Revision: F

ECN #: 28478

Performance

	ENGLISH	SI	
Sensitivity(± 10 %)	100 mV/g	10.2 mV/(m/s ²)	
Measurement Range	± 50 g pk	± 491 m/s ² pk	
Frequency Range(± 5 %)	1.0 to 4000 Hz	1.0 to 4000 Hz	
Frequency Range(± 10 %)	0.7 to 5000 Hz	0.7 to 5000 Hz	
Resonant Frequency	≥ 25 kHz	≥ 25 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.0003 g rms	0.003 m/s ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	

Environmental

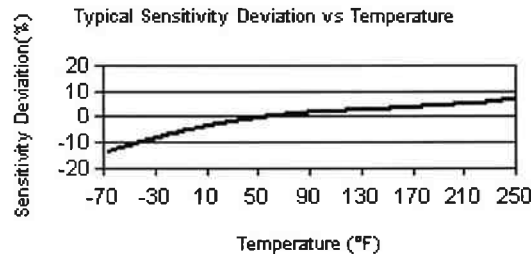
	ENGLISH	SI	
Overload Limit(Shock)	± 5000 g pk	± 49,050 m/s ² pk	
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[1]
Base Strain Sensitivity	0.001 g/με	0.01 (m/s ²)/με	[1]

Electrical

	ENGLISH	SI	
Excitation Voltage	24 to 30 VDC	24 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 200 ohm	≤ 200 ohm	
Output Bias Voltage	7 to 16 VDC	7 to 16 VDC	
Discharge Time Constant	0.4 to 1.5 sec	0.4 to 1.5 sec	
Settling Time(within 10% of bias)	<5 sec	<5 sec	
Spectral Noise(1 Hz)	95 μg/√Hz	932 (μm/s ²)/√Hz	[1]
Spectral Noise(10 Hz)	20 μg/√Hz	196 (μm/s ²)/√Hz	[1]
Spectral Noise(100 Hz)	6 μg/√Hz	58.9 (μm/s ²)/√Hz	[1]
Spectral Noise(1 kHz)	3 μg/√Hz	29.4 (μm/s ²)/√Hz	[1]
Spectral Noise(10 kHz)	2 μg/√Hz	19.6 (μm/s ²)/√Hz	[1]

Physical

	ENGLISH	SI	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Height x Length x Width)	0.45 in x 0.45 in x 0.45 in	11.4 mm x 11.4 mm x 11.4 mm	[1]
Weight	0.19 oz	5.4 gm	
Electrical Connector	8-36 4-Pin	8-36 4-Pin	
Electrical Connection Position	Side	Side	
Mounting Thread	5-40 Female	5-40 Female	
Mounting Torque	4 to 5 in-lb	45 to 55 N-cm	



All specifications are at room temperature unless otherwise specified.
In the interest of constant product improvement, we reserve the right to change specifications without notice.

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OPTIONAL VERSIONS

Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

T - TEDS Capable of Digital Memory and Communication Compliant with IEEE P1451.4

TLA - TEDS LMS International - Free Format

TLB - TEDS LMS International - Automotive Format

TLC - TEDS LMS International - Aeronautical Format

TLD - TEDS Capable of Digital Memory and Communication Compliant with IEEE 1451.4

Output Bias Voltage 7.7 to 17.0 VDC 7.7 to 17.0 VDC

Weight .23 oz 6.4 gm

Mounting Adhesive Adhesive

NOTES:

- [1] Typical.
[2] Zero-based, least-squares, straight line method.
[3] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

- Model 034K10 4-cond. shielded cable, 10 ft (3 m), mini 4-pin plug to (3) BNC plugs (1)
Model 080A Adhesive Mounting Base (1)
Model 080A109 Petro Wax (1)
Model 081A27 Mounting Stud (5-40 to 5-40) (1)
Model 081A90 Mounting stud, 10-32 to 5-40 (1)
Model ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1)
Model M081A27 Metric mounting stud, 5-40 to M3 x 0.50 long (1)

Entered: *[Signature]* Engineer: *[Signature]* Sales: *[Signature]* Approved: *[Signature]* Spec Number:

Date: *3-28-08* Date: *3-27-08* Date: *3-28-08* Date: *3-28-08* 16563

PCB PIEZOTRONICS™
VIBRATION DIVISION

3425 Walden Avenue, Depew, NY 14043

Phone: 716-684-0001

Fax: 716-685-3886

E-Mail: vibration@pcb.com