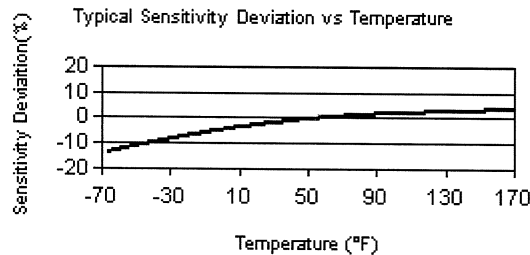


Model Number
356A22

TRIAxIAL ICP® ACCELEROMETER

Revision: H
ECN #: 19913

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 %)	0.5 to 4000 Hz	0.5 to 4000 Hz	
Frequency Range (± 10 %)	0.4 to 5000 Hz	0.4 to 5000 Hz	
Resonant Frequency	≥ 25 kHz	≥ 25 kHz	
Broadband Resolution (1 to 10,000 Hz)	0.0002 g rms	0.002 m/s ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Environmental			
Overload Limit (Shock)	± 5000 g pk	± 49,050 m/s ² pk	
Temperature Range (Operating)	-65 to +170 °F	-54 to +77 °C	
Temperature Response	See Graph	See Graph	
Base Strain Sensitivity	0.001 g/με	0.01 (m/s ²)/με	[1]
Electrical			
Excitation Voltage	18 to 30 VDC	18 to 30 VDC	
Constant Current Excitation	2 to 20 mA	2 to 20 mA	
Output Impedance	≤ 200 ohms	≤ 200 ohms	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Discharge Time Constant	1 to 3 sec	1 to 3 sec	
Settling Time (within 10% of bias)	<10 sec	<10 sec	
Spectral Noise (1 Hz)	50 μg/√Hz	490 (μm/s ²)/√Hz	[1]
Spectral Noise (10 Hz)	20 μg/√Hz	196 (μm/s ²)/√Hz	[1]
Spectral Noise (100 Hz)	5 μg/√Hz	49 (μm/s ²)/√Hz	[1]
Spectral Noise (1 kHz)	2 μg/√Hz	19.8 (μm/s ²)/√Hz	[1]
Spectral Noise (10 kHz)	1 μg/√Hz	9.8 (μm/s ²)/√Hz	[1]
Physical			
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	
Weight (without cable)	0.19 oz	5.4 gm	[1]
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	45 to 55	



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.

A - Adhesive Mount

Supplied Accessory : Model 034K10 4-cond. shielded cable, 10 ft (3M), mini 4-pin plug to (3) BNC plugs (1)

Supplied Accessory : Model 080A109 Petro Wax (1)

Supplied Accessory : Model 080A90 Quick Bonding Gel (1)

J - Ground Isolated

Electrical Isolation (Base) 10⁸ ohms 10⁸ ohms

Size - Height x Length x Width 0.49 in x 0.45 in x 0.49 in 12.5 mm x 11.4 mm x 12.5 mm

Weight (without cable) 0.23 oz 6.5 gm

Mounting Adhesive Adhesive

Supplied Accessory : Model 034K10 4-cond. shielded cable, 10 ft (3M), mini 4-pin plug to (3) BNC plugs (1)

Supplied Accessory : Model 080A109 Petro Wax (1)

Supplied Accessory : Model 080A90 Quick Bonding Gel (1)

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 (3M), 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)

Triaxial ICP® Accelerometer

Entered: BLS	Engineer: JPB	Sales: WDL	Approved: RM	Spec Number:
Date: 5-25-04	Date: 7/12/09	Date: 8/6/09	Date: 8/19/09	9265

PCB PIEZOTRONICS™
VIBRATION DIVISION
3425 Walden Avenue, Depew, NY 14043

Phone: 716-684-0001
Fax: 716-685-3886
E-Mail: vibration@pcb.com