

Model Number
356A19

TRIAxIAL ICP® ACCELEROMETER

Revision: A
ECN #: 54078

	ENGLISH	SI	
Performance			
Sensitivity(± 10 %)	10 mV/g	1.02 mV/(m/s ²)	
Measurement Range	± 500 g pk	± 4,905 m/s ² pk	
Frequency Range(± 5 %)	1 to 13,000 Hz	1 to 13,000 Hz	
Frequency Response(± 10 %)	0.6 to 15,000 Hz	0.6 to 15,000 Hz	
Resonant Frequency	≥ 55 kHz	≥ 55 kHz	
Broadband Resolution(1 to 10,000 Hz)	.006 g rms	.06 m/s ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[2]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
TEDS Compliant(Per IEEE 1451.4)	Yes	Yes	[3]
Environmental			
Overload Limit(Shock)	± 10,000 g pk	± 98,100 m/s ² pk	
Temperature Range(Operating)	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	[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 Ohm	≤ 200 Ohm	
Output Bias Voltage	8 to 13 VDC	8 to 13 VDC	
Discharge Time Constant	0.6 to 1.6 sec	0.6 to 1.6 sec	
Settling Time(within 10% of bias)	< 5 sec	< 5 sec	
Spectral Noise(1 Hz)	500 µg/√Hz	4,905 (µm/sec ²)/√Hz	[1]
Spectral Noise(10 Hz)	160 µg/√Hz	1,570 (µm/sec ²)/√Hz	[1]
Spectral Noise(100 Hz)	75 µg/√Hz	736 (µm/sec ²)/√Hz	[1]
Spectral Noise(1 kHz)	65 µg/√Hz	638 (µm/sec ²)/√Hz	[1]
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Height x Width x Length)	0.4 in x 0.4 in x 0.4 in	10.2 mm x 10.2 mm x 10.2 mm	
Weight(without cable)	0.14 oz	4 gm	[1]
Electrical Connection Position	Side	Side	
Cable Termination	1/4-28 4-Pin Jack	1/4-28 4-Pin Jack	
Cable Length	5 ft	1.5 m	
Cable Type	034 4-cond Shielded	034 4-cond Shielded	
Mounting Thread	5-40 Female	5-40 Female	
Mounting Torque	4 to 5 in-lb	45 to 56 N-cm	

OPTIONAL VERSIONS

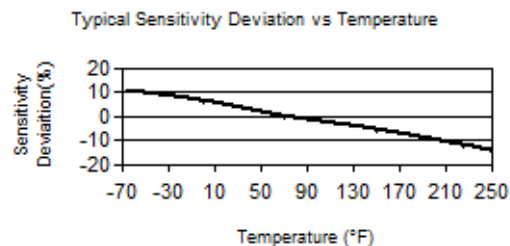
Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.

NOTES:

- [1]Typical.
- [2]Zero-based, least-squares, straight line method.
- [3]TEDS Capable Digital Memory and Communication, compliant with IEEE 1451.4
- [4]See PCB Declaration of Conformance PS023 for details.

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 080A15 Adhesive Mounting Base (1)
- Model 081A27 Mounting Stud (5-40 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)



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.

Entered: ND	Engineer: NJF	Sales: KK	Approved: NJF	Spec Number:
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