

Model Number
354C02

TRIAxIAL ICP® ACCELEROMETER

Revision: M
ECN #: 29040

Performance	ENGLISH	SI	
Sensitivity(± 10 %)	10 mV/g	1.02 mV/(m/s ²)	
Measurement Range	± 500 g pk	± 4905 m/s ² pk	
Frequency Range(± 5 %)	0.5 to 2000 Hz	0.5 to 2000 Hz	
Frequency Range(± 10 %)	0.3 to 4000 Hz	0.3 to 4000 Hz	
Frequency Range(± 3 dB)	0.2 to 6000 Hz	0.2 to 6000 Hz	
Resonant Frequency	≥ 12 kHz	≥ 12 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.0005 g rms	0.005 m/s ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[4]
Transverse Sensitivity	≤ 5 %	≤ 5 %	
Environmental			
Overload Limit(Shock)	± 5000 g pk	± 49,050 m/s ² pk	
Temperature Range	-65 to +250 °F	-54 to +121 °C	[3]
Temperature Response	See Graph	See Graph	
Base Strain Sensitivity	0.0005 g/μe	0.005 (m/s ²)/μe	[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	≤ 100 ohm	≤ 100 ohm	
Output Bias Voltage	8 to 12 VDC	8 to 12 VDC	
Discharge Time Constant	0.8 to 2.0 sec	0.8 to 2.0 sec	
Settling Time(within 10% of bias)	<10 sec	<10 sec	
Spectral Noise(1 Hz)	150 μg/√Hz	1472 (μm/s ²)/√Hz	[1]
Spectral Noise(10 Hz)	23 μg/√Hz	226 (μm/s ²)/√Hz	[1]
Spectral Noise(100 Hz)	10 μg/√Hz	98 (μm/s ²)/√Hz	[1]
Spectral Noise(1 kHz)	5 μg/√Hz	49 (μm/s ²)/√Hz	[1]
Electrical Isolation	>10 ⁸ ohm	>10 ⁸ ohm	
Physical			
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Welded Hermetic	Welded Hermetic	
Size (Hex x Height)	0.815 in x 0.45 in	20.7 mm x 11.4 mm	
Weight	0.55 oz	15.5 gm	[1]
Electrical Connector	1/4-28 4-Pin	1/4-28 4-Pin	
Electrical Connection Position	Side	Side	
Mounting	Through Hole	Through Hole	

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 080A90 Quick Bonding Gel (1)

HT - High temperature, extends normal operation temperatures

Frequency Range(± 5 %)	2 to 2000 Hz	2 to 2000
Frequency Range(± 10 %)	1 to 4000 Hz	1 to 4000
Frequency Range(± 3 dB)	0.5 to 6000 Hz	0.5 to 6000
Broadband Resolution(1 to 10,000 Hz)	0.0010 g rms	0.010 μm/s ² rms
Temperature Range(Operating)	-65 to +325 °F	-54 to +163 °C
Excitation Voltage	22 to 30 VDC	22 to 30 VDC
Output Bias Voltage	10 to 14.5 VDC	10 to 14.5 VDC
Discharge Time Constant	0.4 to 1.0 sec	0.4 to 1.0 sec
Spectral Noise(1 Hz)	300 μg/√Hz	2940 (μm/s ²)/√Hz
Spectral Noise(10 Hz)	120 μg/√Hz	1176 (μm/s ²)/√Hz
Spectral Noise(100 Hz)	60 μg/√Hz	588 (μm/s ²)/√Hz
Spectral Noise(1 kHz)	10 μg/√Hz	98 (μm/s ²)/√Hz

M - Metric Mount

Supplied Accessory : Model M039A23 Allen wrench, 4mm hex (1) replaces Model 039A23
Supplied Accessory : Model M081B60 Off ground screw assembly (1) replaces Model 081B60

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

Excitation Voltage 22 to 30 VDC 22 to 30 VDC

Output Bias Voltage 8.5 to 14.5 VDC 8.5 to 14.5 VDC

W - Water Resistant Cable

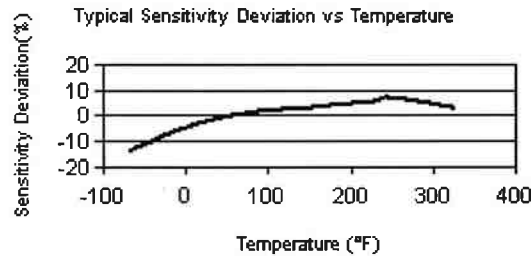
Electrical Connector Sealed Integral Cable Sealed Integral Cable

NOTES:

- [1] Typical.
- [2] TEDS option adds 1.0 VDC to bias voltage.
- [3] 250° F to 325° F data valid with HT option only.
- [4] Zero-based, least-squares, straight line method.
- [5] See PCB Declaration of Conformance PS023 for details.

SUPPLIED ACCESSORIES:

Model 039A23 Allen wrench, 5/32" hex (1)
Model 080A109 Petro Wax (1)
Model 081B60 off ground screw assembly (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.
In the interest of constant product improvement, we reserve the right to change specifications without notice.

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