

Model Number

354C10

TRIAxIAL ICP® ACCELEROMETER

Revision: G

ECN #: 42197

Performance

	ENGLISH	SI	
Sensitivity(± 15 %)	10 mV/g	1.02 mV/(m/s ²)	
Measurement Range	± 500 g pk	± 4905 m/s ² pk	
Frequency Range(± 5)	2 to 8000 Hz	2 to 8000 Hz	
Resonant Frequency	≥ 40 kHz	≥ 40 kHz	
Broadband Resolution(1 to 10,000 Hz)	0.003 g rms	0.03 m/s ² rms	[1]
Non-Linearity	≤ 1 %	≤ 1 %	[3]
Transverse Sensitivity	≤ 5 %	≤ 5 %	

Environmental

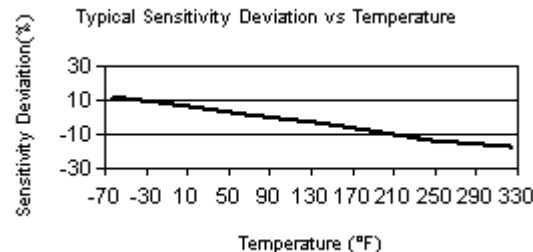
	ENGLISH	SI	
Overload Limit(Shock)	± 10,000 g pk	± 98,100 m/s ² pk	[2]
Temperature Range	-65 to +250 °F	-54 to +121 °C	
Temperature Response	See Graph	See Graph	

Electrical

	ENGLISH	SI	
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	7 to 12 VDC	7 to 12 VDC	
Discharge Time Constant	0.3 to 1.0 sec	0.3 to 1.0 sec	
Settling Time(within 10% of bias)	<3 sec	<3 sec	
Spectral Noise(1 Hz)	1000 µg/√Hz	9810 (µm/sec ²)/√Hz	[1]
Spectral Noise(10 Hz)	300 µg/√Hz	2943 (µm/sec ²)/√Hz	[1]
Spectral Noise(100 Hz)	80 µg/√Hz	785 (µm/sec ²)/√Hz	[1]
Spectral Noise(1 kHz)	25 µg/√Hz	308 (µm/sec ²)/√Hz	[1]
Electrical Isolation	>10 ⁸ Ohm	>10 ⁸ Ohm	

Physical

	ENGLISH	SI	
Sensing Element	Ceramic	Ceramic	
Sensing Geometry	Shear	Shear	
Housing Material	Titanium	Titanium	
Sealing	Hermetic	Hermetic	
Size (Height x Length x Width)	0.30 in x 0.55 in x 0.55 in	7.6 mm x 14.0 mm x 14.0 mm	
Weight(without cable)	0.18 oz	5.0 gm	[1]
Electrical Connector	1/4-28 4-Pin	1/4-28 4-Pin	
Electrical Connection Position	Side	Side	
Cable Length	5 ft	1.5 m	
Cable Type	034 4-cond Shielded	034 4-cond Shielded	
Mounting	Through Hole	Through Hole	



[4]

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.

HT - High temperature, extends normal operation temperatures

Temperature Range(Operating) -65 to 325 °F -54 to 163 °C

M - Metric Mount

Supplied Accessory : Model M039A22 Allen wrench for use with M3 thread (1) replaces Model 039A21

Supplied Accessory : Model M081B93 Insulated cap screw, M3x0.5 thd x 1/2" long (for Model M354C10) (1) replaces Model 081B93

NOTES:

[1] Typical.

[2] 250° F to 325° F data valid with HT option only.

[3] Zero-based, least-squares, straight line method.

[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 039A21 Allen wrench, 3/32" hex (1)

Model 081B93 Insulated cap screw, 5-40 thd x 1/2" long (for Model 354C10) (1)

Model ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1)

Entered: AP	Engineer: JJB	Sales: WDC	Approved: JJB	Spec Number:
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