

Model Number 339A31	TRIAxIAL ICP® ACCELEROMETER		Revision D ECN #: 34526																												
Performance Sensitivity (±10 %) Measurement Range Frequency Range (±5 %) Resonant Frequency Filter Type (single pole) Electrical Filter Roll-off Electrical Filter Corner Frequency Broadband Resolution (1 to 10000 Hz) Non-Linearity Transverse Sensitivity	ENGLISH 10 mV/g ±500 g pk 2 to 8000 Hz ≥25 kHz Low Pass 6 dB/octave >13 kHz 0.008 g rms ≤0.5 % ≤5 %	SI 1.02 mV/(m/s ²) ±4905 m/s ² pk 2 to 8000 Hz ≥25 kHz Low Pass 6 dB/octave >13 kHz 0.078 m/s ² rms ≤0.5 % ≤5 %	Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.) Notes [1] Typical. [2] See PCB Declaration of Conformance PS023 for details.																												
Environmental Overload Limit (Shock) Temperature Range (Operating) Temperature Response Temperature Coefficient of Sensitivity	±5000 g pk -65 to +325 °F See Graph ≤0.11 %/°F	±49050 m/s ² pk -54 to +163 °C See Graph ≤0.020 %/°C	Supplied Accessories [1] 034K10 Cable 10FT Mini 4 Pin To (3) BNC (1) 080A Adhesive Mounting Base (1) 080A109 Petro Wax (1) 080A90 Quick Bonding Gel (1) 081A27 Mounting Stud (5-40 to 5-40) (1) 081A90 Mounting stud, 10-32 to 5-40 (1) [1] ACS-1T NIST traceable triaxial amplitude response, 10 Hz to upper 5% frequency. (1) M081A27 Metric mounting stud, 5-40 to M3 x 0.50 long (1)																												
Electrical Excitation Voltage Constant Current Excitation Output Impedance Output Bias Voltage (Room Temperature) Discharge Time Constant Settling Time (within 10% of bias) Spectral Noise (1 Hz) Spectral Noise (10 Hz) Spectral Noise (100 Hz) Spectral Noise (1 kHz)	18 to 30 VDC 2 to 20 mA ≤200 ohm 7 to 11 VDC 0.6 to 2 sec <3 sec 1700 µg/√Hz 500 µg/√Hz 200 µg/√Hz 100 µg/√Hz	18 to 30 VDC 2 to 20 mA ≤200 ohm 7 to 11 VDC 0.6 to 2 sec <3 sec 16660 (µm/sec ² /√Hz) 4900 (µm/sec ² /√Hz) 1960 (µm/sec ² /√Hz) 980 (µm/sec ² /√Hz)	[1] [1] [1] [1]																												
Physical Sensing Geometry Housing Material Sealing Size (Height x Length x Width) Weight Electrical Connector Electrical Connection Position Mounting Mounting Thread (z axis)	Shear Titanium Hermetic 0.55 in x 0.4 in x 0.4 in 0.2 oz 8-36 4-Pin Side Stud 5-40 Female	Shear Titanium Hermetic 14 mm x 10.2 mm x 10.2 mm 5.5 gm 8-36 4-Pin Side Stud 5-40 Female	[1]																												
<div data-bbox="661 1177 1060 1372" data-label="Figure"> <p>Typical Sensitivity Deviation vs Temperature</p> <table border="1"> <caption>Typical Sensitivity Deviation vs Temperature</caption> <thead> <tr> <th>Temperature (°F)</th> <th>Sensitivity Deviation (%)</th> </tr> </thead> <tbody> <tr> <td>-70</td> <td>0</td> </tr> <tr> <td>-20</td> <td>0</td> </tr> <tr> <td>30</td> <td>0</td> </tr> <tr> <td>80</td> <td>0</td> </tr> <tr> <td>130</td> <td>0</td> </tr> <tr> <td>180</td> <td>0</td> </tr> <tr> <td>230</td> <td>0</td> </tr> <tr> <td>280</td> <td>0</td> </tr> <tr> <td>330</td> <td>0</td> </tr> </tbody> </table> </div> <p>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.</p>	Temperature (°F)	Sensitivity Deviation (%)	-70	0	-20	0	30	0	80	0	130	0	180	0	230	0	280	0	330	0	<table border="1" data-bbox="1123 1169 2016 1250"> <tr> <td>Entered: DMW</td> <td>Engineer: RPF</td> <td>Sales: WDC</td> <td>Approved: EB</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 12/01/2010</td> <td>Date: 12/01/2010</td> <td>Date: 12/01/2010</td> <td>Date: 12/01/2010</td> <td>41207</td> </tr> </table> <div data-bbox="1134 1266 1533 1347" data-label="Image"> </div> <div data-bbox="1554 1266 1848 1445" data-label="Text"> <p>3425 Walden Avenue Depew, NY 14043 UNITED STATES Phone: 888-684-0013 Fax: 716-685-3886 E-mail: vibration@pcb.com Web site: www.pcb.com</p> </div>	Entered: DMW	Engineer: RPF	Sales: WDC	Approved: EB	Spec Number:	Date: 12/01/2010	Date: 12/01/2010	Date: 12/01/2010	Date: 12/01/2010	41207
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