

A/134/V-3 Triaxial Piezo-Tronic IEPE Accelerometer

1mV/g up to 200mV/g $\pm 10\%$

22gm

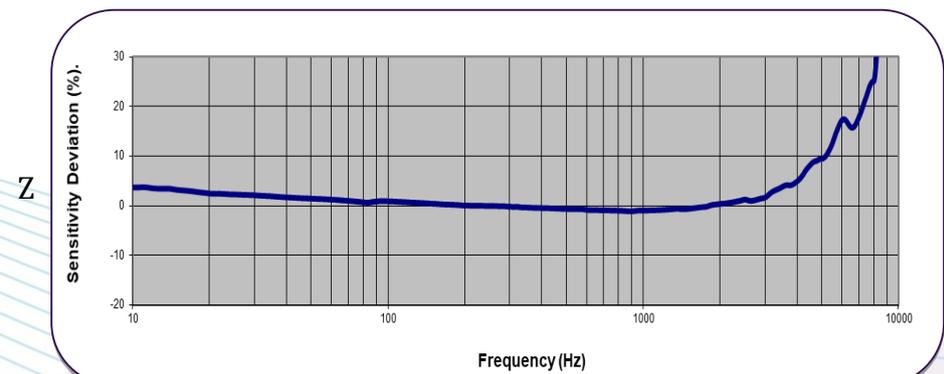
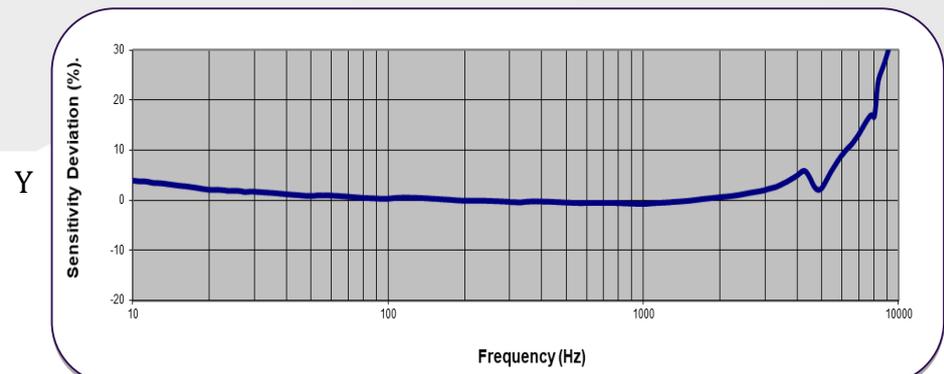
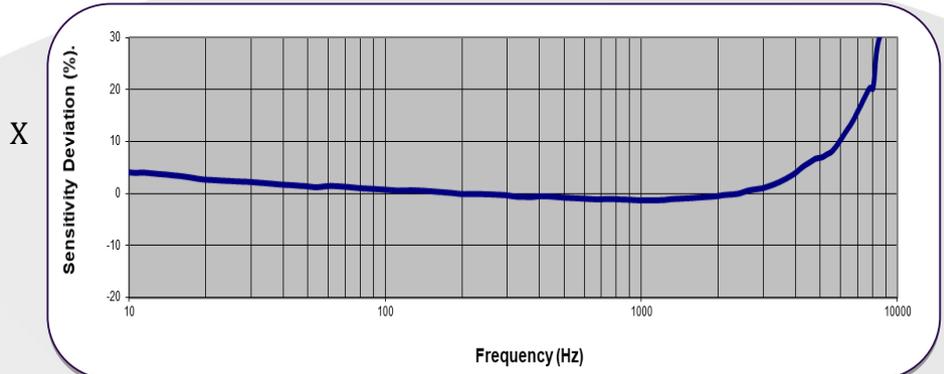
Std Temp 125°C



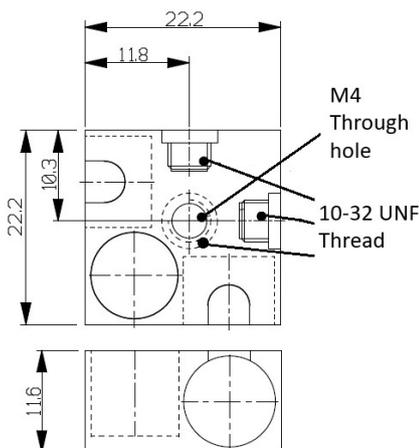
Lightweight triaxial vibration transducer comprising three, Konic shear IEPE, all welded inserts, bonded orthogonally into hard anodized aluminum housing. The inserts are electrically insulated, individually and from the housing, thus eliminating ground loop interference. Low impedance O/P provides a high degree of noise immunity (80dB improvement vs. equiv. charge source device @ 50Hz) and allows use with low cost coaxial cable. The additional mechanical isolation implicit in the construction provides also near elimination of strain induced error. All the 3x10-32 UNF Microdot connectors are exiting in the same direction.

The multi sensor solution also offers the benefit of being repairable. If an insert is damaged it can usually be removed and replaced saving the cost of a new accelerometer.

Typical Frequency Response



A/134/V-3



Please note: For information and reference only. Data should not be used as pass / fail criteria for calibration purposes

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A UK company with UK-based manufacturing, assembly and calibration in-house.

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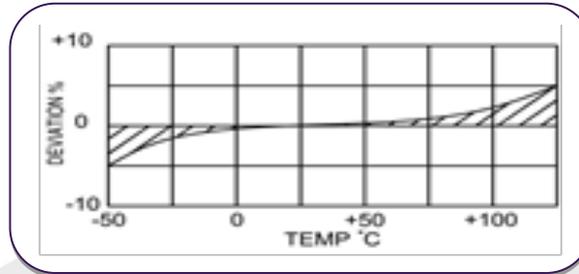
Std Temp 125°C



Typical Spectral Noise (100mV/g)

0.5Hz	792 μ g/ \sqrt Hz
1Hz	761 μ g/ \sqrt Hz
10Hz	193 μ g/ \sqrt Hz
100Hz	37.3 μ g/ \sqrt Hz
1kHz	11.2 μ g/ \sqrt Hz
10kHz	4.2 μ g/ \sqrt Hz

Temperature Response



	Metric		Imperial	
Voltage Sensitivity $\pm 10\%$	1.02mV/(m/s ²)	10.2mV/(m/s ²)	10mV/g	100mV/g
Resonant Frequency	X/Y Axis 25kHz Z Axis 28kHz			
Typical Frequency Response $\pm 5\%$ $\pm 10\%$	1Hz - 4kHz 0.7Hz - 5kHz			
Cross Axis Error	$\leq 5\%$ max			
Temperature Range	-50/ +125°C		-58/ +257°F	
Voltage Sensitivity Deviation (20°C / 68°F)	-5% @ -50°C +5% @ +125°C		-5% @ -58°F +5% @ +257°F	
Supply Voltage	15/35 V DC			
Supply Current	2/20 mA			
Bias Voltage (20°C/ 68°F)	10/14 VDC			
Base Strain Sensitivity/Strain	<0.001g/ μ strain			
Shock limit	29,420m/s ²		3000g	
Case material	Inserts stainless steel 303 S31 Mounting block anodized aluminum alloy			
Mounting	1 x M4 \emptyset though hole + 3 x tapped 10-32 UNF x 4mm deep		1 x M4 \emptyset though hole + 3 x tapped 10-32 UNF x 0.157in deep	
Weight	22g		0.78oz	
Case Seal	Welded transducer inserts, bonded into hard anodized aluminum block			
Size	19.1 x 19.1 x 11.6mm		0.75 x 0.75 x 0.46in	
Connector	3 x 10-32 UNF Microdot			

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