

A/130/V-1 Triaxial Piezo-Tronic IEPE Accelerometer

10mV/g up to 500mV/g $\pm 10\%$

41gm

Std Temp 125°C

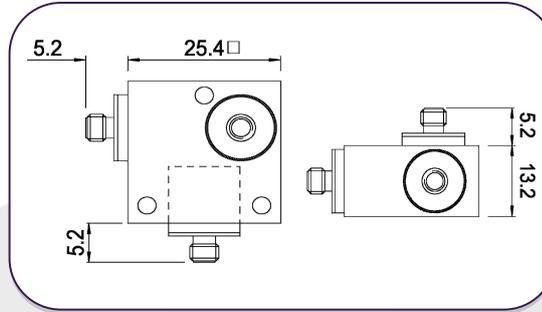


General purpose triaxial vibration transducer comprising three, Konic shear® IEPE welded inserts, bonded orthogonally into hard anodized aluminum housing. The inserts are electrically insulated, individually and from the housing, thus eliminating ground loop interference. Low impedance O/P provides a high degree of noise immunity (80 db 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.

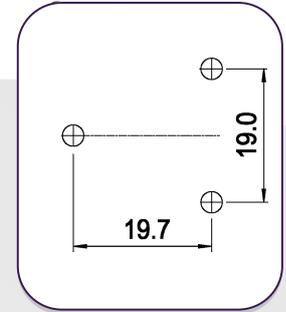
The d33 component suppression property of the Konic design, resulting in minimization of cross axis error, is particularly advantageous for three axis measurement integrity.

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.

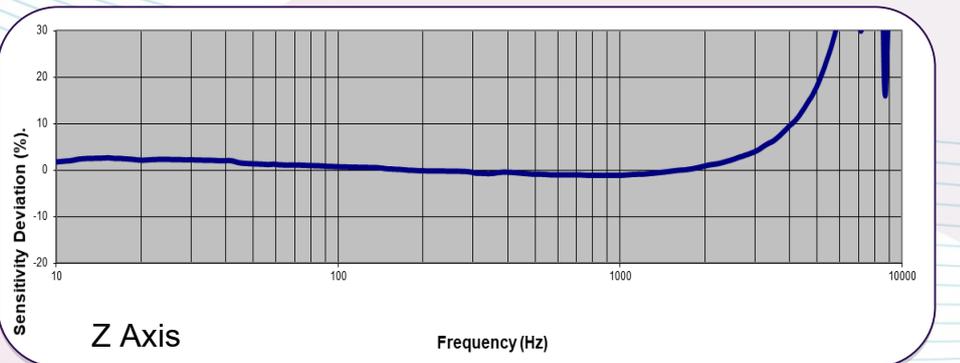
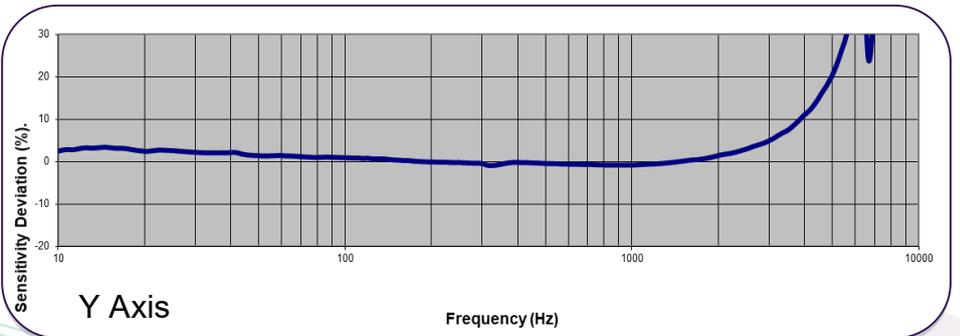
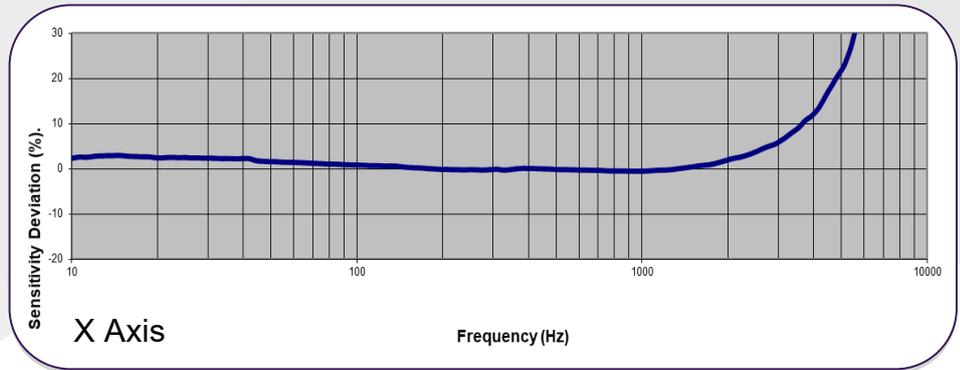
A/130/V



Fixing



Typical Frequency Response



Spectral Noise

1Hz	761 μ g/ \sqrt Hz
10Hz	193 μ g/ \sqrt Hz
100Hz	37.8 μ g/ \sqrt Hz
1kHz	11.2 μ g/ \sqrt Hz
10kHz	4.2 μ g/ \sqrt Hz

Options:

- A/130V
- A/130V-1

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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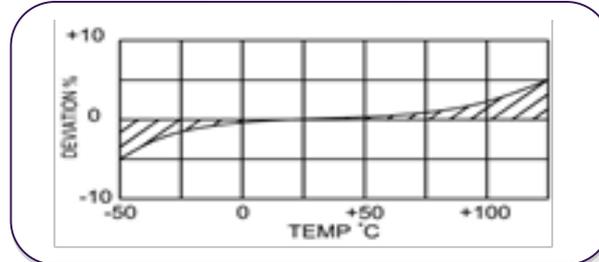
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Temperature Response



	Metric		Imperial	
	Voltage Sensitivity $\pm 10\%$	1.02 mV/(m/s ²)	10.2 mV/(m/s ²)	10 mV/g
Resonant frequency	X/Y Axis 13kHz Z Axis 15 kHz			
Typical Frequency Response $\pm 5\%$ $\pm 10\%$	1Hz - 3kHz 0.7Hz - 4kHz			
Cross axis error	$\leq 5\%$ max			
Temperature range	-50/ +185°C		-58/+257°F	
Voltage sensitivity deviation re (20°C/68°F)	-5% @-50°C +5% @+125°C		-5% @-58°F +5% @+257°F	
Supply voltage	15/35 VDC			
Supply current	2/20 mA			
Bias voltage (20°C/68°F)	10/14 VDC			
Settling time within 10% bias	<5 Sec			
Shock level	9806m/s ²		1000g	
Saturation limit	4903m/s ²	490.3m/s ²	500g	50g
Base Strain Sensitivity	$\leq 0.001\text{g}/\mu$ strain			
Case/ Block Material	303 S31/ Aluminum			
Mounting	Through hole & 3 x tapped base			
Weight	41g		1.45oz	
Case seal	Welded transducer inserts, bonded into hard anodized aluminum block			
Size	25.4 x 25.4 x 13.2mm		1 x 1 x 0.52in	
Connector	3 x 10-32 UNF Microdot			

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