



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

1mV/g up to 200mV/g  $\pm 10\%$  19gm Std Temp 125°C (185°C HT)

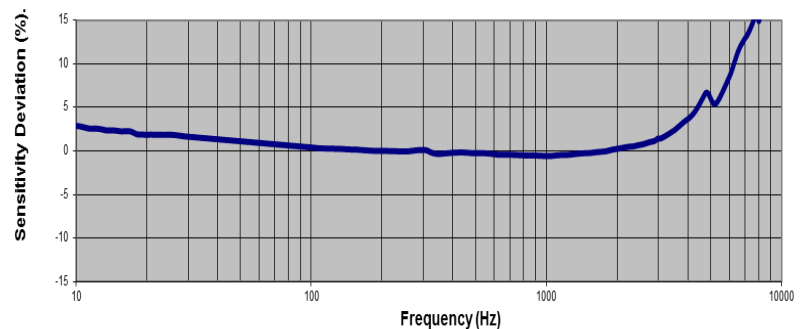
Lightweight triaxial vibration transducer comprising three, Konic shear IEPE, all welded inserts, bonded orthogonally into hard anodized aluminum housing. The inserts are electrically insulated, individually and from the housing, thus eliminating ground loop interference. Low impedance O/P provides a 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 d33 component suppression property of the Konic design, provides a minimization of cross axis error, and is particularly advantageous for three axis measurement integrity.

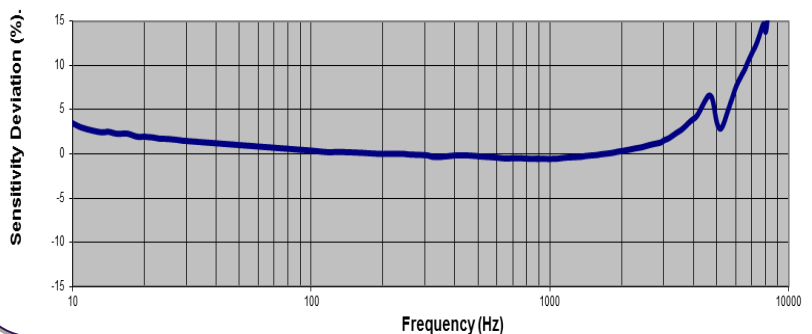
The multi sensor solution also offers the benefit of being repairable. If an insert is damaged it can usually be removed and replaced saving the cost of a new accelerometer.

### Typical Frequency Response

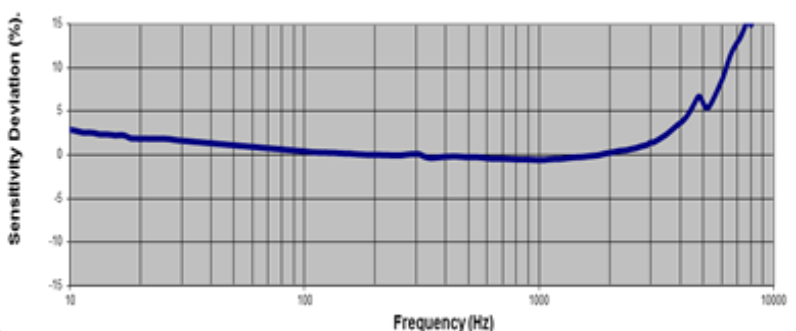
X



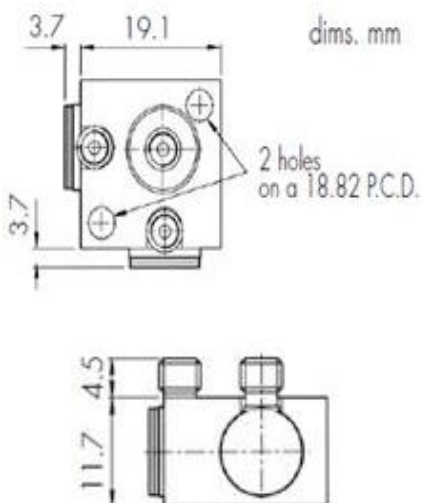
Y



Z



### A/134



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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### Options

Wideband  
temperature  
calibration

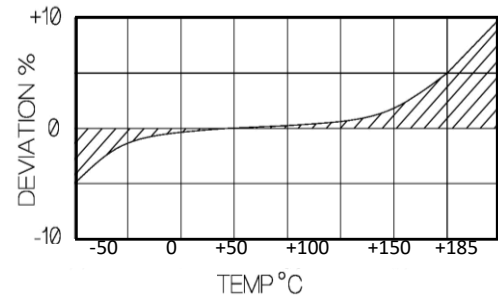
A/134/V, A/134/V-3

Also available with  
DJB's unique high  
temperature IEPE  
solution capable of  
testing up to 185°C as  
an option.

### Typical Spectral Noise (100mV/g)

0.5Hz	792 $\mu$ g/ $\sqrt{\text{Hz}}$
1Hz	761 $\mu$ g/ $\sqrt{\text{Hz}}$
10Hz	193 $\mu$ g/ $\sqrt{\text{Hz}}$
100Hz	37.3 $\mu$ g/ $\sqrt{\text{Hz}}$
1kHz	11.2 $\mu$ g/ $\sqrt{\text{Hz}}$
10kHz	4.2 $\mu$ g/ $\sqrt{\text{Hz}}$

### Temperature Response



	Metric		Imperial	
	Voltage Sensitivity $\pm 10\%$	1.02mV/(m/s <sup>2</sup> )	10.2mV/(m/s <sup>2</sup> )	10mV/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/ +185°C		-58/ +365°F	
Voltage Sensitivity Deviation (20°C / 68°F)	-5% @ -50°C +5% @ +185°C		-5% @ -58°F +5% @ +365°F	
Supply Voltage	15/35 V DC			
Supply Current	2/20 mA			
Bias Voltage (20°C / 68°F)	9/10 V DC			
Base Strain Sensitivity/Strain	<0.001			
Max Continuous accn. g sine	9806m/s <sup>2</sup>		1000g	
Case material	Inserts stainlesssteel 303 S31 Mounting block anodized aluminum alloy			
Mounting	2 x 3.57 mm through holes		2 x 0.14" through holes	
Weight	19g		0.67oz	
Case Seal	Welded transducer inserts, bonded into hard anodised aluminum block			
Size	19.1 x 19.1 x 11.7mm		0.75 x 0.75 x 0.46in	
Connector	10-32 UNF Microdot			
Base Strain Sensitivity	$\leq 5\%$			

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