



A/131/V Triaxial Piezo-Tronic IEPE Accelerometer

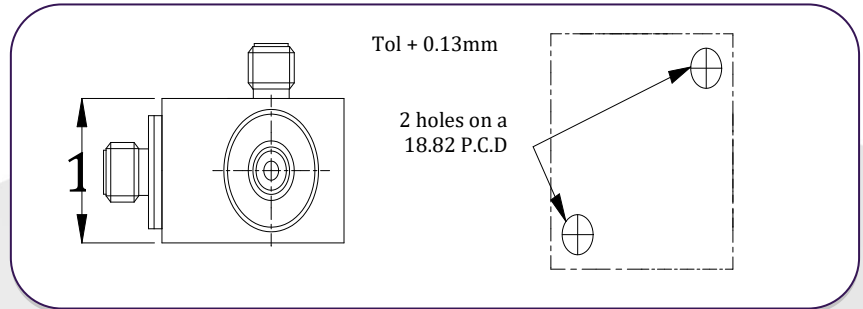
10mV/g up to 500 mV/g ± 10 19gm Std Temp 125°C (185 °C)

A 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 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.

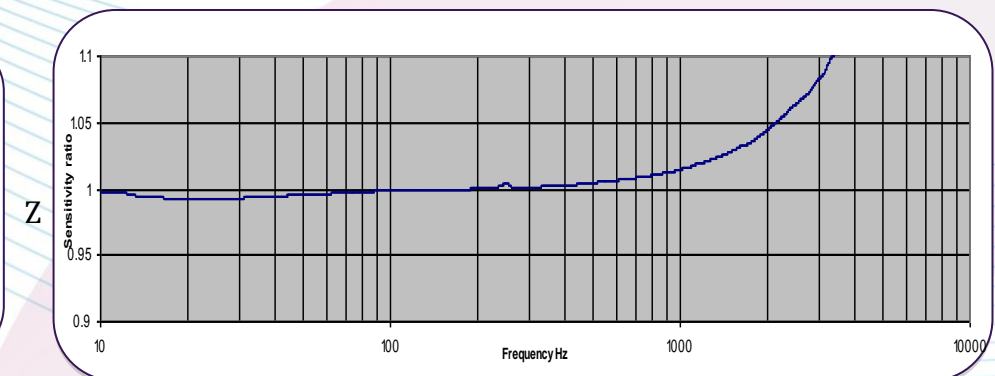
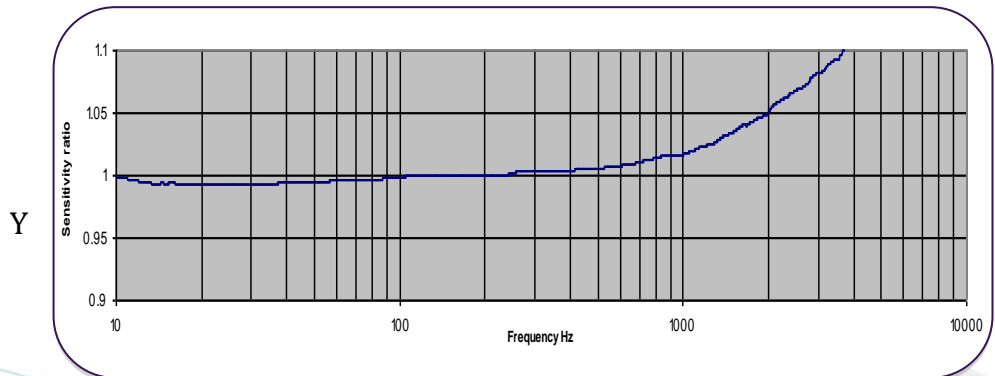
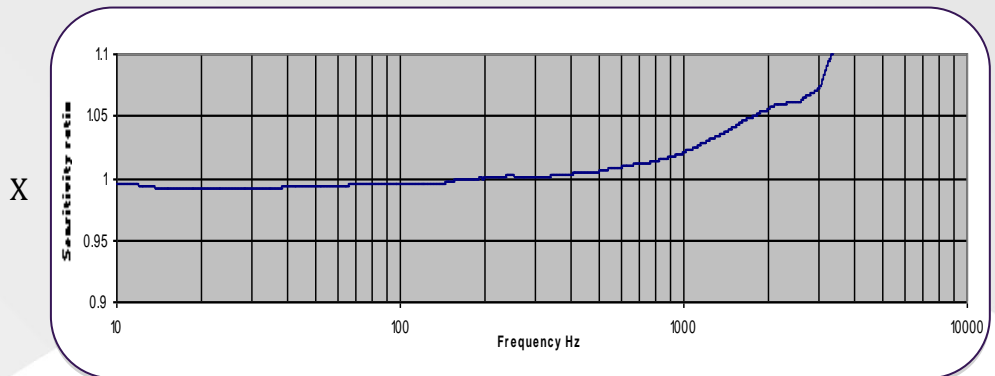
The d33 component suppression property of the Konic design minimises cross axis error, and is particularly advantageous for three axis measurement integrity.

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.

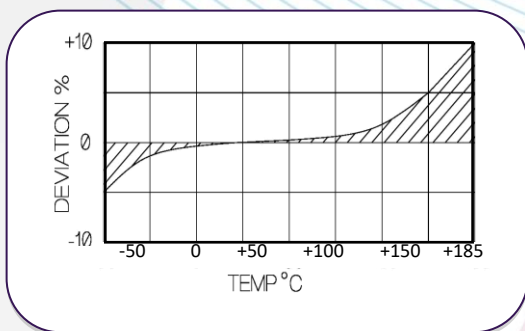
A/131/V



Typical Frequency Response



Temperature Response



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

DJB Instruments (UK) Ltd

Finchley Avenue,
Mildenhall, Suffolk IP28 7BG

Tel +44 (0)1638 712 288
Email sales@djbinstruments.com
Web www.djbinstruments.com

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

DJB Iss.2.2018



FM11310



A/131/V Triaxial Piezo-Tronic IEPE Accelerometer

10mV/g up to 500 mV/g ± 10 19gm Std Temp 125°C (185 °C)

Options

- Wideband temperature calibration
- 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)

1Hz	345 μ g/ \sqrt Hz
10Hz	156 μ g/ \sqrt Hz
100Hz	44 μ g/ \sqrt Hz
1kHz	12.1 μ g/ \sqrt Hz
10kHz	8.2 μ g/ \sqrt Hz

	Metric		Imperial	
	1.02mV/(m/s ²)	10.2mV/(m/s ²)	10mV/g	100mV/g
Voltage Sensitivity $\pm 10\%$	1.02mV/(m/s ²)	10.2mV/(m/s ²)	10mV/g	100mV/g
Resonant frequency	X/Y Axis 25 kHz Z Axis 28 kHz			
Typical Frequency Response $\pm 5\%$ $\pm 10\%$	1Hz - 3kHz 0.7Hz – 4kHz			
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 $\pm 10\%$ @ +185°C		-5% @ -58°F +5% @ +257°F $\pm 10\%$ @ +365°F	
Supply voltage	15/35 V DC			
Supply current	2/20mA			
Bias voltage	9/10 V DC			
Base strain sens/strain	<0.01			
Max continuous accn.g sine	9806m/s ²		1000g	
Case/Block Material	Inserts stainless steel 303 S31/ Aluminium Mounting Block			
Mounting	2x3.57mm through holes		2x 0.14in through holes	
Weight	19g		0.67oz	
Case seal	Transducer inserts welded and bonded into hard anodized aluminium block			
Size	19.1 x 19.1 x 11.7mm		0.75 x 0.75 x 0.46in	
Connector	3 x 10-32 UNF Microdot			

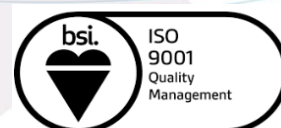
Please note: For information and reference only. Data should not be used as pass / fail criteria for calibration purposes

DJB Instruments (UK) Ltd
Finchley Avenue,
Mildenhall, Suffolk IP28 7BG

Tel +44 (0)1638 712 288
Email sales@djbinstruments.com
Web www.djbinstruments.com

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

DJB Iss.2.2018



FM11310