

## A/136/V High Sensitivity Triaxial Piezo-Tronic IEPE Accelerometer

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

24.9gm

Std

Temp 125°C



Triaxial vibration transducer comprising of three independent Konic Shear IEPE voltage output piezo-tronic accelerometers mounted orthogonally within a titanium block. Each sensor has a fully welded construction and each axis is calibrated individually in addition to the block calibration.

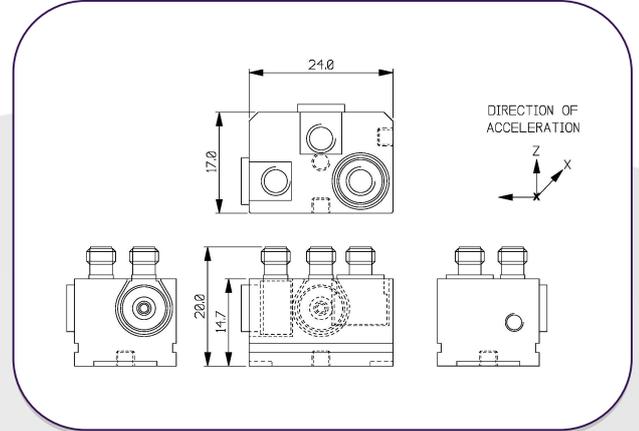
All the Microdot connectors are exiting in the same direction. Each insert is electrically insulated, individually from the housing, thus eliminating ground loop interference.

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.

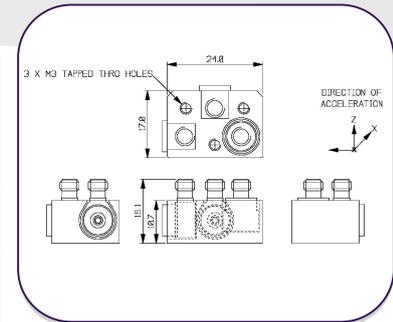
The A/136 can be adhesive mounted or clip mounted.

A/36-1 Features M3 cut through holes for mounting.

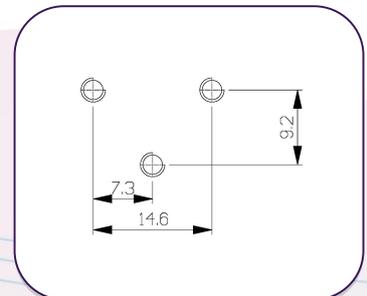
### A/136 Drawing



### A/136-1 Drawing



### A/136-1 Cut through holes



	Metric			Imperial		
	0.1 mV/(m/s <sup>2</sup> )	1.02 mV/(m/s <sup>2</sup> )	10.2 mV/(m/s <sup>2</sup> )	1mV/g	10mV/g	100mV/g
Voltage Sensitivity $\pm 10\%$						
Resonant Frequency	Z Axis $\approx 21\text{kHz}$			X/Y Axis $\approx 15\text{kHz}$		
Typical Frequency Response $\pm 5\%$ $\pm 10\%$	1Hz-4kHz 0.7Hz-5kHz	1Hz-4kHz 0.7Hz-5kHz	1Hz-4kHz 0.7Hz-5kHz	1Hz-4kHz 0.7Hz-5kHz	1Hz-4kHz 0.7Hz-5kHz	1Hz-4kHz 0.7Hz-5kHz
Cross Axis Error	$\leq 5\%$ max					
Temperature Range	-50/ +125°C			-58/+257°F		
Voltage Sensitivity Deviation	-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	10/14 VDC					
Setting time within 10% bias	<5 sec					
Shock limit	49,033m/s <sup>2</sup>			5000g		
Saturation Limit	49033m/s <sup>2</sup>	4903m/s <sup>2</sup>	490.3m/s <sup>2</sup>	5000g	500g	50g
Case Material	Titanium Grade 2					
Mounting	Adhesive/ 3x M3 Tapped Holes/Clip					
Weight	24.9g			0.88oz		
Case Seal	Welded					
Size	24 x 17 x 14.7mm			0.95 x 0.66 x 0.58in		
Connector	3 x 10-32 UNF Microdot					
Base Strain Sensitivity	$\leq 0.01\text{g}/\mu$ strain					

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

DJB Iss.6 2020

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



ISO 9001 - 00025363



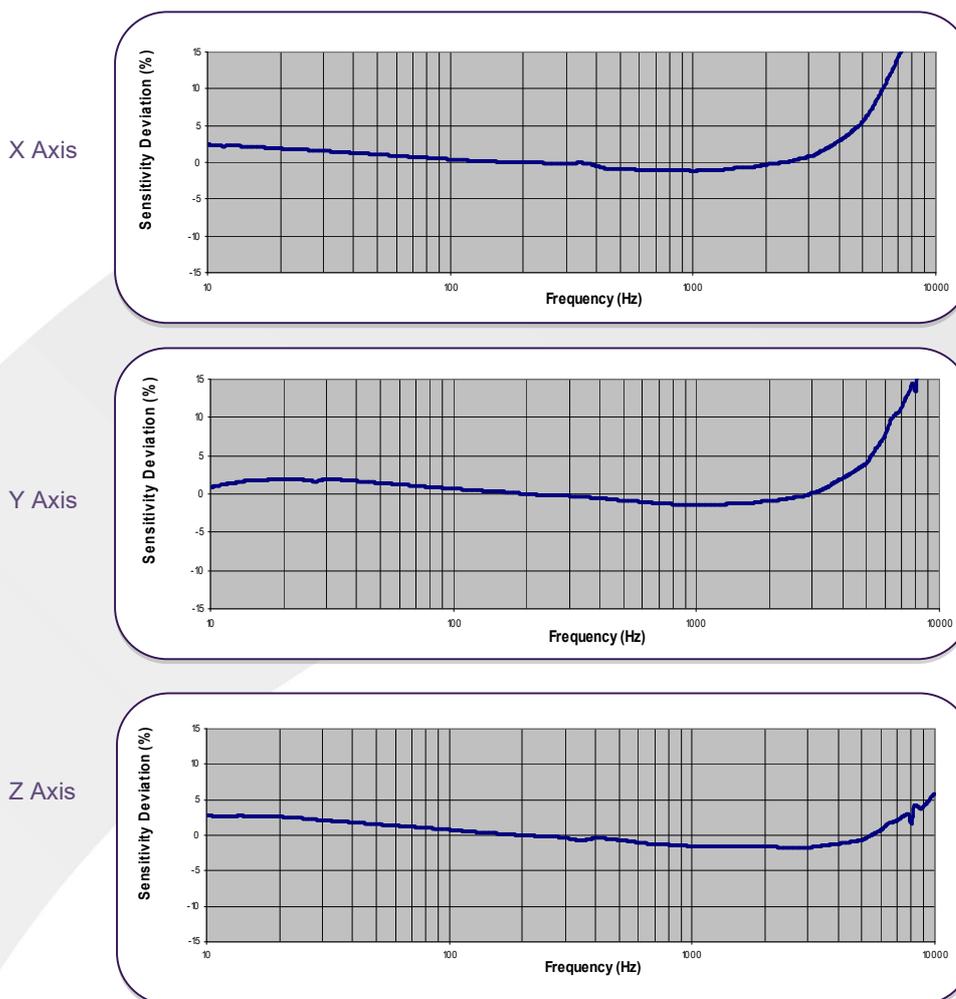
## A/136/V High Sensitivity Triaxial Piezo-Tronic IEPE Accelerometer

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

24.9gm

Std Temp. 125°C

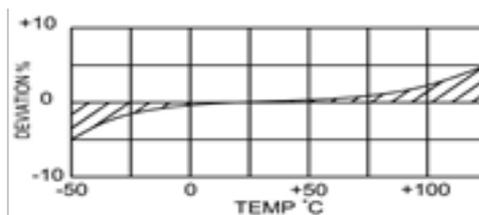
### Typical Frequency Response



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

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

### 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@djbstruments.com  
Web www.djbstruments.com

DJB Iss.6 2020

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



ISO 9001 – 00025363