

## A/34-2 Piezoelectric Triaxial Accelerometer

7pC/g nom.      22gm      220°C Max



Lightweight triaxial vibration transducer comprising three Konic Shear® fully welded sensing inserts bonded orthogonally into a hard anodized aluminum housing.

All the 3x10/32 Microdot connectors are exiting in the same direction. The inserts are electrically insulated, individually and from the housing, thus eliminating ground loop interference.

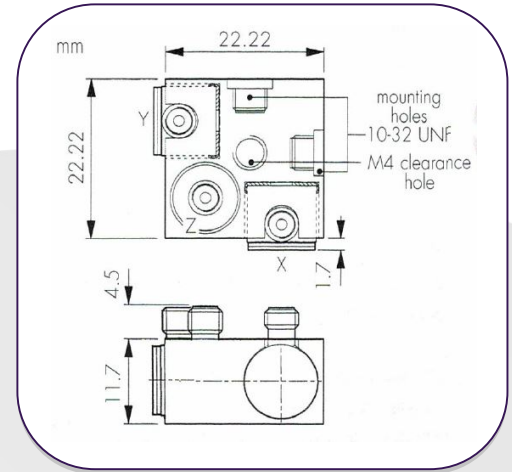
The additional mechanical isolation implicit in the construction provides near elimination of strain induced error.

The A/34-2 is mounted via a single M4 clearance hole in the centre or via one of three 10/32UNF tapped holes for mounting in the three orthogonal axes (X,Y,Z).

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

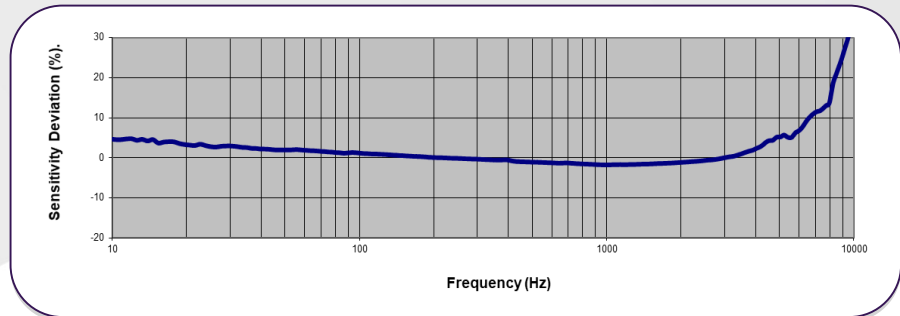
The A/34-2 has the benefit that a damaged insert can be removed and replaced, this reduces long term ownership cost due to a reduction in future replacement cost.

### A/34-2

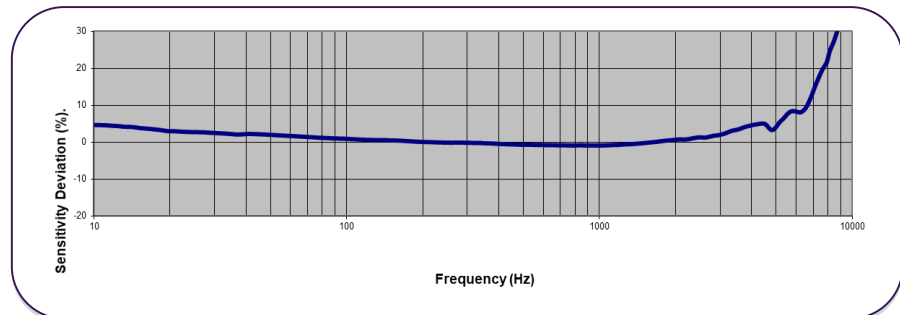


### Typical Frequency Response

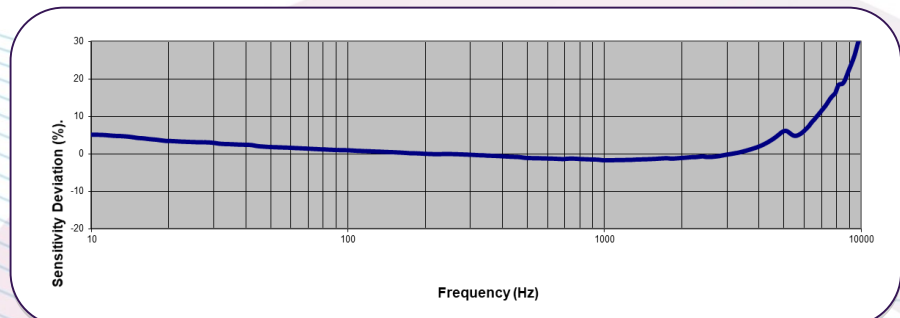
X



Y



Z



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

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

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

DJB Iss.4 2020



ISO 9001 – 00025363



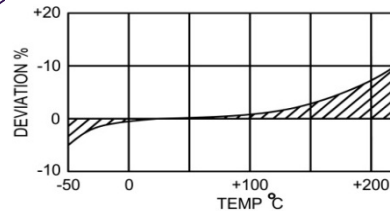
## A/34-2 Piezoelectric Triaxial Accelerometer

7pC/g nom.      22gm      220°C Max

### Options

A/34 – Through hole mounting.  
 A/34-2 – Through hole mounting with tapped mounting holes in sides and

### Temperature Response



	Metric	Imperial
Charge sensitivity nom.	0.71pC/(m/s <sup>2</sup> )	7pC/g
Resonant Frequency	X/Y 25 kHz	Z 28 kHz
Typical Frequency Response	±5% ±10%	1Hz – 2kHz 0.7Hz – 3kHz
Pyro-electric output		0.2°C
Pyro-electric corner frequency		0.001Hz
Cross Axis error		≤5% max
Capacitance		1150 pF
Temperature Range	-50/ +220°C	-58/ +428°F
Charge sensitivity deviation (20°C/68°F)	-5% @ -50°C +10% @ +220°C	-5% @ -58°F +10% @ +428°F
Base strain Sensitivity		≤0.001g/μ strain
Max shock g pk. Rise time μ sec	98100m/s <sup>2</sup> , 30	10000g,30
Materials	Fully welded transducer inserts bonded into hard anodised aluminium block	
Mounting	1 x M4 Ø though hole + 3 x tapped 10-32 UNF x 4mm deep	1 x M4 Ø though hole + 3 x tapped 10-32 UNF x 0.157in deep
Weight	22g	0.78oz
Case seal	Transducer inserts welded, bonded into hard anodized aluminum block	
Size	22.2mm x 22.2mm x 11.6mm	0.87in x 0.87in 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

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

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

DJB Iss.4 2020



ISO 9001 – 00025363