

A/34 Piezoelectric Triaxial Accelerometer

7pC/g nom.

19gm

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.

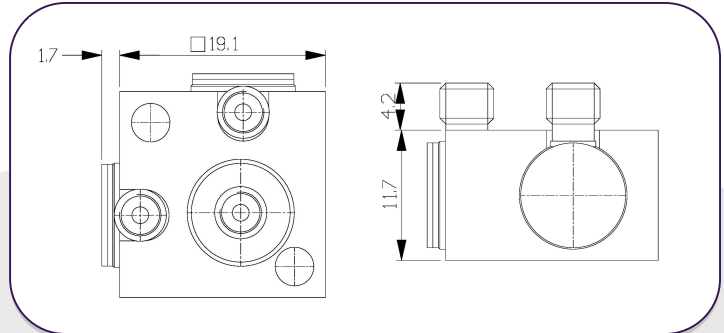
The additional mechanical isolation implicit in the construction provides near elimination of strain induced error.

The A/34 is mounted via 2 through holes (3.57mm diameter) in the aluminium block.

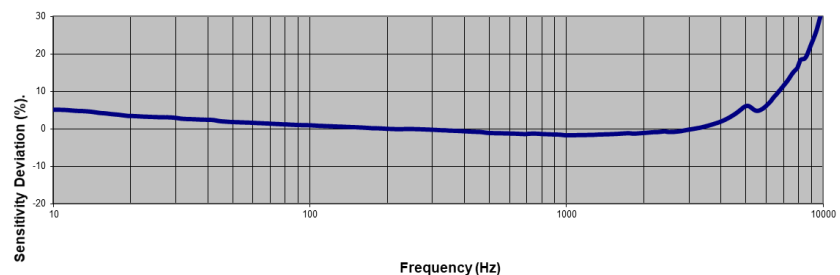
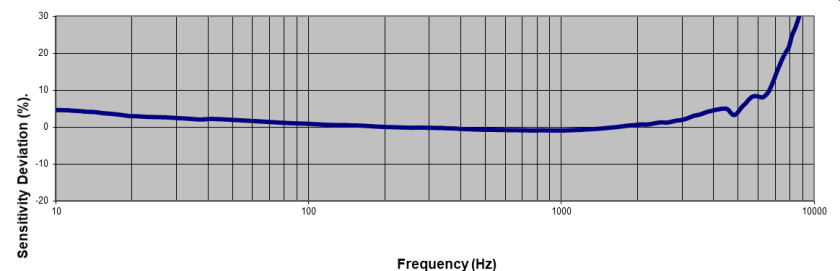
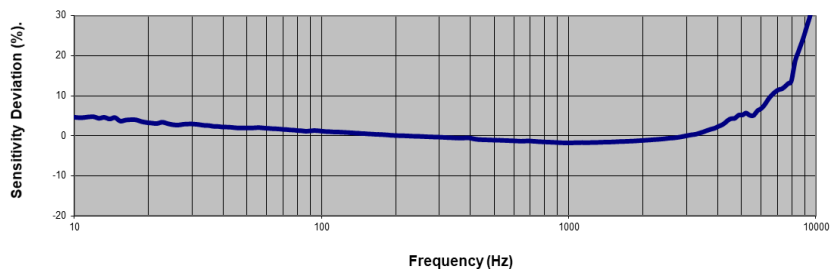
The d33 component suppression property of the Konic Shear design, resulting in minimization of cross axis error, is particularly advantageous for three axis measurement integrity.

The A/34 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



Typical Frequency Response



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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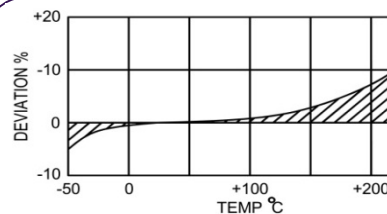
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Options

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

Temperature Response



	Metric	Imperial
Charge sensitivity nom.	0.71pC/(m/s ²)	7pC/g
Resonant Frequency	X/Y 25 kHz Z 28 kHz	
Typical Frequency Response	1Hz – 4kHz 0.7Hz – 5kHz	
	±5%	
	±10%	
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 ² , 30	10000g,30
Materials	Fully welded transducer inserts bonded into hard anodised aluminium block	
Mounting	2 x 3.57mm Ø through holes	2 x 0.14in Ø through holes
Weight	19g	0.67oz
Case seal	Transducer inserts welded	
Size	19.1mm x 19.1mm x 11.7mm	0.75in x 0.75in x 0.46in
Connector	3 x 10-32 UNF Microdot	

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DISTRIBUTOR

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