



A/120/VTC Piezo-Tronic IEPE Accelerometer

10mV/g up to 1V/g $\pm 10\%$ 27gm Std temp 125°C (HT 185°C)

The A/120 range of general purpose Konic shear IEPE vibration transducers offer a wide range of mounting, connectors and sensitivities all using DJB's unique and technically superior Konic shear design of piezoelectric ceramic sensor. Offering anything from 10mV/g up to 1V/g output within the same size accelerometer body it is perfectly suited to applications from vibration shaker control and delicate testing through to industrial machine monitoring.

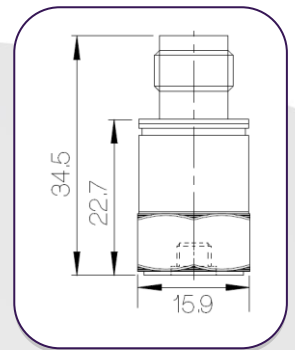
Using a wide range of IEPE signal conditioning levels the A/120 can interface directly to a wide range of commercially available vibration spectrum analyzers and data acquisition systems as well as in our own VV/04, V3/04, V4/04 and CV9 signal conditioners which offer a range of normalizing and amplification options.

Also available with DJB's world leading high temperature IEPE electronics for 185°C operation.

Note:

Voltage sensitivities shown are standard. We offer a wide range of sensitivities on request and recommend that applications are evaluated to determine the requisite sensitivity.

A/120/VTC

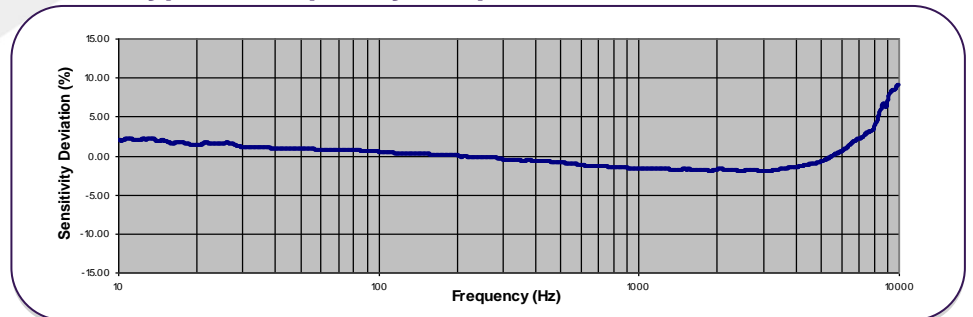


Options:

Cable assemblies available to any length and with any terminating connector.

- A/120/CR – Side entry
- A/120/V – Side entry
- A/120/VI – Side entry
- A/120/VT – Top entry
- A/120/VTC – Top entry
- A/120/VTI – Top entry

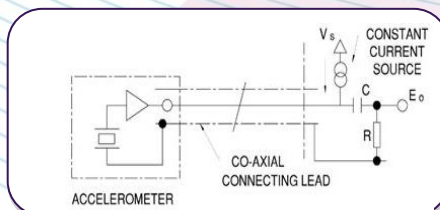
Typical Frequency Response



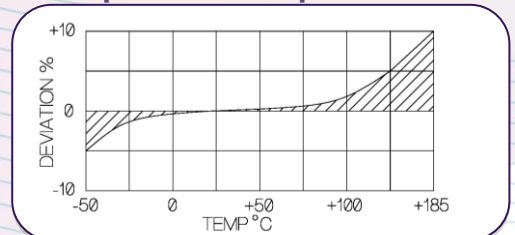
Typical Spectral Noise (100mV/g)

1Hz	732 $\mu\text{g}/\sqrt{\text{Hz}}$
10Hz	82.1 $\mu\text{g}/\sqrt{\text{Hz}}$
100Hz	16.2 $\mu\text{g}/\sqrt{\text{Hz}}$
1kHz	4.2 $\mu\text{g}/\sqrt{\text{Hz}}$
10kHz	3.1 $\mu\text{g}/\sqrt{\text{Hz}}$

Accelerometer Connection



Temperature 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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A/120/VTC Piezo-Tronic IEPE Accelerometer

10mV/g up to 1V/g ±10%

27gm

Std temp 125°C (HT 185°C)

	Metric		Imperial	
Voltage Sensitivity ±10%	1.0mV/(m/s ²)	0.10.mV/(m/s ²)	10mV/g	100mV/g
Resonant frequency	28 kHz			
Typical Frequency Response	1Hz – 6kHz			
±5%	0.7Hz – 7kHz			
±10%				
Cross Axis error	≤5%			
Temperature Range	-50/+185°C		-58/+365°F	
Voltage sensitivity deviation (20°C/68°F)	-5% @ -50°C +5% @ +125°C ±10% @ +185°C		-5% @ -58°F +5% @ +257°F ±10% @ +365°F	
Supply voltage	15/35 V DC			
Supply current	2/15mA			
Bias voltage	8/10 V DC			
Settling time to 90% final val.	<2 secs			
Max continuous accn. g sine	9807m/s ²		1000g	
Saturation Limit, equiv .g	4903m/s ²	490m/s ²	500g	50g
Base Strain Sensitivity	≤ 5%		≤ 5%	
Noise level, equiv. mg	5	3	5	3
Case material	Stainless Steel 303 S31			
Mounting	Base tapped hole, 10-32 UNF x 4mm deep		Base tapped hole, 10-32 UNF x 0.16 deep	
Weight	27gm		0.95oz	
Case seal	Welded hermetic connector		Welded hermetic connector	
Connector	10-32 UNF Microdot, TNC			
Size	14.3 (A/F) x 21.5mm		0.562in (A/F) x 0.85in	

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