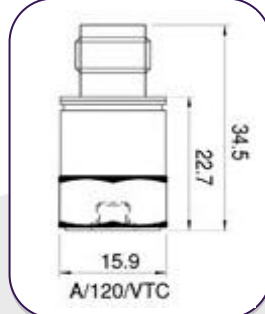
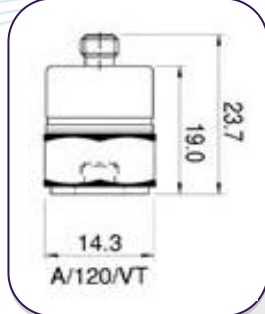
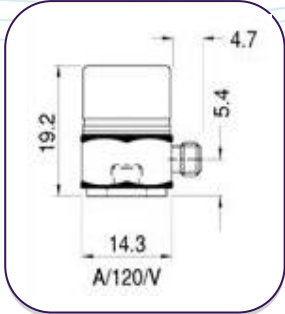


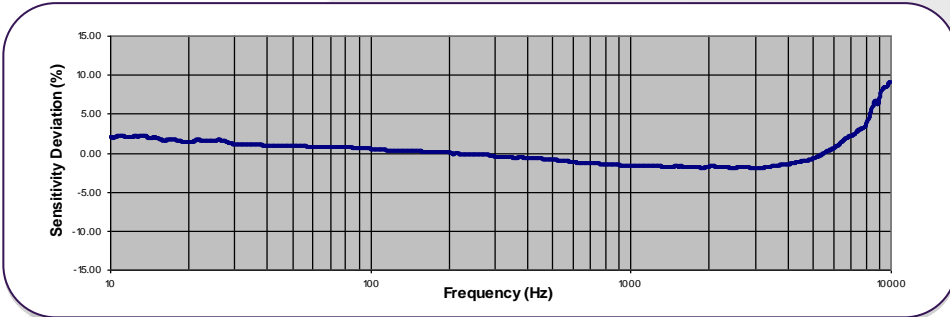


## A/120/V, A/120/VT, A/120/VTC, A/120/VI, A/120/VTI Piezo-Tronic IEPE Accelerometer

10mV/g up to 1V/g  $\pm 10\%$  12.5 - 32.6gm Std temp 125°C (HT 185°C)



### Typical Frequency Response



### Spectral Noise

1Hz	98.7 $\mu\text{g}/\sqrt{\text{Hz}}$
10Hz	61 $\mu\text{g}/\sqrt{\text{Hz}}$
100Hz	13.1 $\mu\text{g}/\sqrt{\text{Hz}}$
1kHz	4.2 $\mu\text{g}/\sqrt{\text{Hz}}$
10kHz	0.5 $\mu\text{g}/\sqrt{\text{Hz}}$

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.

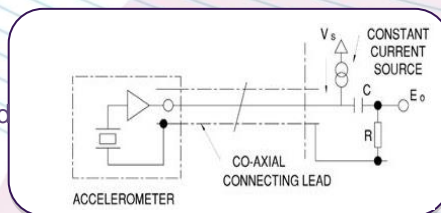
### Options:

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

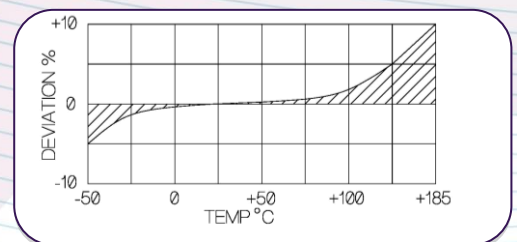
### Note:

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.

### Accelerometer Connection



### Temperature Response



## A/120/V, A/120/VT, A/120/VTC, A/120/VI, A/120/VTI Piezo-Tronic IEPE Accelerometer

10mV/g up to 1V/g  $\pm 10\%$  12.5 - 32.6gm Std temp 125°C (HT 185°C)



	Metric		Imperial	
	Voltage Sensitivity $\pm 10\%$	1.0mV/(m/s <sup>2</sup> )	0.1V/(m/s <sup>2</sup> )	10mV/g
Resonant frequency	$\approx 28$ kHz			
Cross Axis error	5% max			
Temperature Range	-50/+185°C		-58/+365°F	
Voltage sensitivity deviation re 20°C/68°F	+/-5% @ -50°C +/-5% @ +125°C +/- 10% @ +185°C		+/-5% @ -58°F +/-5% @ +257°F +/- 10% @ +365°F	
Typical Frequency Response	1Hz - 8KHz $\pm 5\%$ 0.7Hz - 10KHz $\pm 10\%$		1Hz - 8KHz $\pm 5\%$ 0.7Hz - 10KHz $\pm 10\%$	
Max continuous accn. g sine	9,807m/s <sup>2</sup>		1000g	
Supply voltage	15/35 V DC			
Bias voltage	8/10 V DC			
Supply voltage	2/15mA			
Settling time to 90% final val. secs	<2			
L.F corner frequency, Hz	0.1	0.5	0.1	0.5
Saturation Limit, equiv .g	4,903m/s <sup>2</sup>	490m/s <sup>2</sup>	500g	50g
Noise level, equiv. mg	5	3	5	3
Case material	Titanium Grade 2, Stainless steel 303S31(VTC)			
Mounting	Base tapped hole, 10-32 UNF x 4mm deep		Base tapped hole, 10-32 UNF x 0.16 deep	
Weight	12.5g, 32.6gm (VTC)		0.44oz, 1.15oz(VTC)	
Case seal	Welded hermetic connector		Welded hermetic connector	
Size	14.3 (A/F) x 19.2mm (A/120/V) 14.3 (A/F) x 19.0mm (A/120/VT) 14.3 (A/F) x 21.5mm (A/120/VTC) 14.3 (A/F) x 19.3mm (A/120/VI) 14.3 (A/F) x 19.3mm (120/VTI)		14.3 (A/F) x 0.75in (A/120/V) 14.3 (A/F) x 0.75in (A/120/VT) 14.3 (A/F) x 0.85in (A/120/VTC) 14.3 (A/F) x 0.76in(A/120/VI) 14.3 (A/F) x 0.76in (A/120/VTI)	
Connector	10-32 UNF Microdot, TNC			