



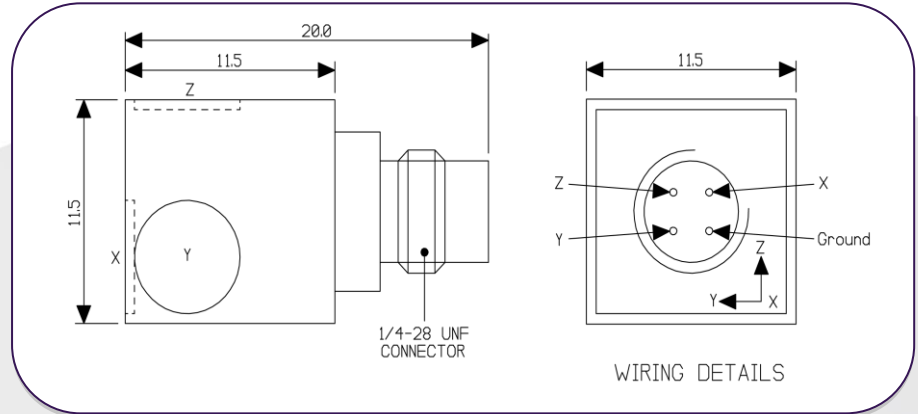
## AT/10 Miniature Triaxial Piezo-Tronic IEPE Accelerometer

1mV/g up to 100mV/g  $\pm 10\%$     6.9gm    125°C Max Temp (185°C HT)

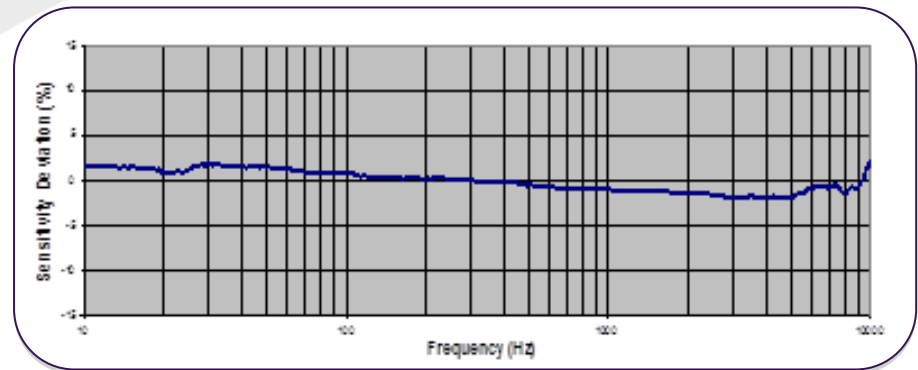
A lightweight miniature triaxial IEPE vibration transducer comprising of three voltage output piezo-electric accelerometer elements mounted orthogonally within a titanium block. The use of independent Konic Shear sensing elements ensures a rugged and repeatable triaxial measurement under the most extreme conditions. This design will outperform single element devices. The AT/10 uses high temperature piezo-ceramics as standard to ensure thermal stability. Using the industry standard 1/4-28 UNF 4 pin connector for a single cable connection, cable assemblies of any length can be provided breaking out to 3 BNC plugs.

The AT/10 is available with DJB's unique high temperature IEPE solution capable of testing up to 185°C as an option.

Standard sensitivity options are 1mV/g up to 100mV/g



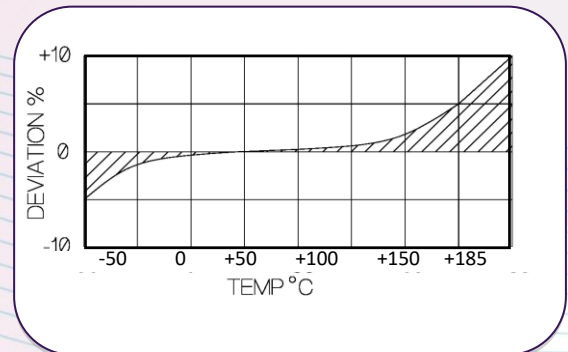
### Typical Frequency Response



### Typical Spectral Noise (1mV/g)

1Hz	39.2 $\mu$ g/ $\sqrt$ Hz
10Hz	2.12 $\mu$ g/ $\sqrt$ Hz
100Hz	930 $\mu$ g/ $\sqrt$ Hz
1kHz	410 $\mu$ g/ $\sqrt$ Hz
10kHz	362 $\mu$ 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@djbinstruments.com  
**Web** www.djbinstruments.com

DJB Iss.3.2018



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

FM11310



## AT/10 Miniature Triaxial Piezo-Tronic IEPE Accelerometer

1mV/g up to 100mV/g  $\pm 10\%$     6.9gm    125°C Max Temp (185°C HT)

	Metric			Imperial		
Voltage Sensitivity @ 20°C $\pm 10\%$	0.1mV/(m/s <sup>2</sup> )	1.02 mV/(m/s <sup>2</sup> )	10.2mV/(m/s <sup>2</sup> )	1mV/g	10mV/g	100mV/g
Resonant Frequency	$\geq 58\text{kHz}$					
Typical Frequency range $\pm 5\%$ $\pm 10\%$	1Hz - 7kHz 0.7Hz - 8kHz	1Hz - 7kHz 0.7Hz - 8kHz	20Hz - 7kHz 15Hz - 8kHz	1Hz - 7kHz 0.7Hz - 8kHz	1Hz - 7kHz 0.7Hz - 8kHz	20Hz - 7kHz 15Hz - 8kHz
Cross Axis Error	$\leq 5\%$ max					
Temperature Range	-50/ +125°C (+185°C HT)			-58/ +257°F (+365°F HT)		
Voltage Sensitivity deviation (20°C / 68°F)	+5% @ +125°C		+10% @ +185°C	+5% @ +257°F		+10% @ +365°F
Supply Voltage	15V to 35V standard					
Supply Current	2-20mA					
Bias Voltage (20°C / 68°F)	9 to 10 V DC					
Max Continuous accn.g sine	49033m/s <sup>2</sup>			5000g		
Saturation limit (equiv. g)	49033m/s <sup>2</sup>	4903m/s <sup>2</sup>	490m/s <sup>2</sup>	5000g	500g	50g
Case Material	Titanium					
Mounting	Adhesive					
Weight	6.9gm			0.24oz		
Case Seal	Welded					
Size	11.5 x 11.5 x 11.5mm			0.45 x 0.45 x 0.45in		
Connector	1/4-28UNF 4 pin					
Base Strain Sensitivity	$\leq 5\%$					

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