



AT/18 Ultra Miniature Triaxial IEPE Accel.

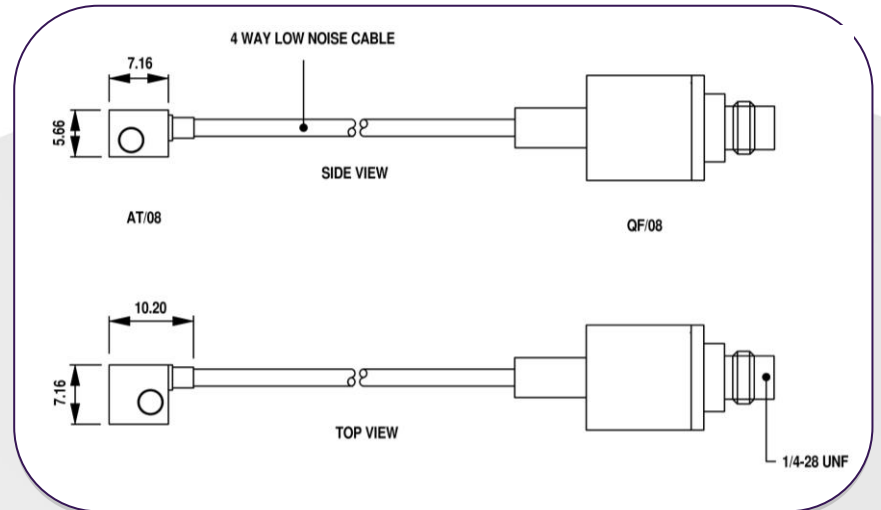
1mV/g up to 10mV/g $\pm 10\%$

1.2gm

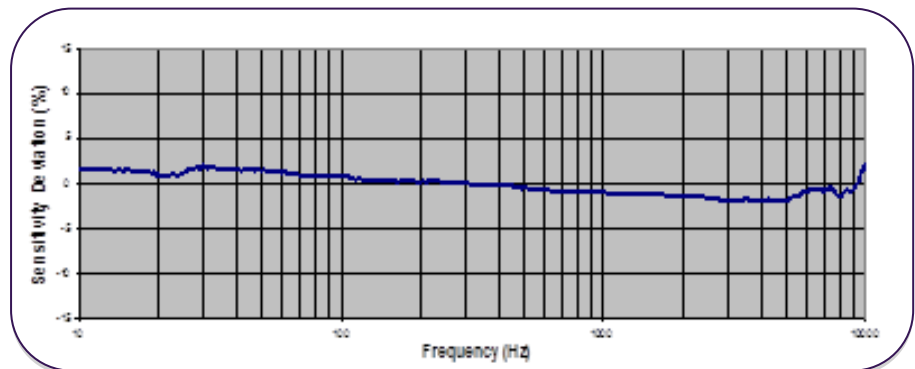
200°C Max Temp

An Ultra-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 shear sensing elements ensures a rugged and repeatable triaxial measurement under the most extreme conditions. This design will outperform single element devices. The AT/18 uses high temperature piezo-ceramics as standard to ensure thermal stability. The accelerometer features a 1m integral cable which terminates with the industry standard 1/4-28 UNF socket, Extension cable assemblies of any length can be provided breaking out to 3 BNC plugs. The AT/18 is available with DJB's unique high temperature IEPE solution capable of testing up to 200°C

Standard sensitivity options are from 1mV/g up to 10mV/g



Typical Frequency Response:



Typical Spectral Noise (5mV/g)

1Hz	1312 μ g/ \sqrt Hz
10Hz	401 μ g/ \sqrt Hz
100Hz	147 μ g/ \sqrt Hz
1kHz	63 μ g/ \sqrt Hz
10kHz	29 μ g/ \sqrt Hz

The AT/18 triaxial IEPE accelerometer can also be specified as a low outgassing accelerometer for use in vacuum applications.

TML of 1% or less / CVCM of 0.1% or less



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	Metric			Imperial		
Voltage Sensitivity @ 20°C mV/g $\pm 10\%$	0.10mV/(m/s ²)	0.51mV/(m/s ²)	1.02mV/(m/s ²)	1mV/g	5mV/g	10mV/g
Resonant Frequency kHz	≥ 58 kHz			≥ 58 kHz		
Cross Axis Error % max	≤ 5			≤ 5		
Typical Frequency range (X/Y/Z Axis) ($\pm 5\%$)	1Hz - 12kHz	5Hz - 12kHz	10Hz - 12kHz	1Hz - 12kHz	5Hz - 12kHz	10Hz - 12kHz
Temperature Range	-50/ +200°C			-58/ +392°F		
Voltage Sensitivity re 20°C / 68°F	-5% @ -50°C +10% @ +200°C			-5% @ -58°F +10% @ +392°F		
Excitation Current	2-20mA			2-20mA		
Max Continuous accn.g sine	49,033m/s ²			5000g		
Saturation limit (equiv. g)	49,033 m/s ²	9,806m/s ²	4,903m/s ²	5000g	1000g	500g
Supply Voltage VDC	15V to 35V standard			15V to 35V standard		
Bias Voltage VDC (20°C)	9 to 10VDC			9 to 10VDC		
Case Material	Titanium			Titanium		
Mounting	Adhesive			Adhesive		
Weight	1.2gm			0.04oz		
Dimensions	7.16 x 7.16 x 5.66mm			0.28 x 0.30 x 0.22in		
Case Seal	Welded			Welded		
Connector	1m low noise Integral Cable with ¼-28 UNF socket			3.28ft low noise Integral Cable with ¼-28 UNF socket		
Size	7 x 7.5 x 5.6mm			0.28 x 0.30 x .022in		