

AT/18 Ultra Miniature Triaxial IEPE Accelerometer

1mV/g up to 10mV/g ±10%

1.2gm

200°C Max Temp

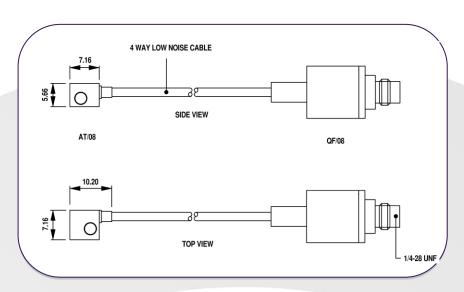


An Ultra-lightweight miniature triaxial IEPE vibration transducer comprising of output piezo-electric three voltage accelerometer elements mounted orthogonally within a titanium block. The use of independent shear sensing elements ensures a rugged repeatable triaxial measurement under the most extreme conditions. This design will outperform single element The AT/18 devices. uses high temperature piezo-ceramics as standard ensure thermal stability. 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

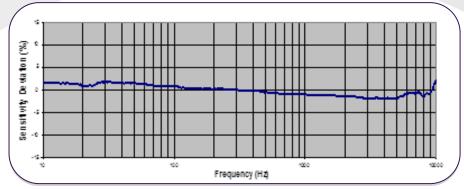
Standard sensitivity options are from 1mV/g up to 10mV/g

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

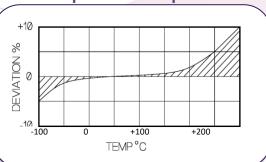
Typical Spectral Noise (5mV/g) 1Hz 1312μg/√Hz 10Hz 401μg/√Hz 100Hz 147μg/√Hz 1kHz 63μg/√Hz 10kHz 29μg/√Hz



Typical Frequency Response:



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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	Metric			Imperial		
Voltage Sensitivity @ 20°C ±10%	0.1mV/(m/s²)	0.5mV/(m/s²)	10.2mV/(m/s²)	1mV/g	5mV/g	10mV/g
Resonant Frequency	≥58kHz					
Typical Frequency Response ±5% ±10%	10Hz – 9kHz 5Hz – 10kHz	10Hz – 9kHz 5Hz – 10kHz	20Hz – 9kHz 15Hz – 10kHz	10Hz – 9kHz 5Hz – 10kHz	1Hz – 9kHz 10Hz – 10kHz	10Hz – 9kHz 5Hz – 10kHz
Cross Axis Error	≤5% max					
Temperature Range	-50/ +200°C			-58/ +392°F		
Voltage Sensitivity deviation (20°C / 68°F)	-5% @ -50°C +10% @ +200°C			-5% @ -58°F +10% @ +392°F		
Supply Voltage	15V DC to 35V DC standard					
Supply Current	2-20mA					
Bias Voltage (20°C / 68°F)	9 to 10V DC					
Max Continuous accn.g sine	49033m/s²			5000g		
Saturation limit (equiv. g)	49033m/s ²	9807m/s ²	4903 m/s ²	5000g	1000g	500g
Case Material	Titanium					
Mounting	Adhesive					
Weight	1.2gm			0.04oz		
Case Seal	Welded					
Size	7 x 7.5 x 5.6mm			0.275 x 0.295 x 0.220in		
Connector	1m low noise Integral Cable with 1/4-28 UNF socket					
Base Strain Sensitivity	≤ 5%					

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