



AT/08 Ultra Miniature Piezoelectric Triaxial Accelerometer

0.4pC/g nom. 1.2gm 200°C Max Temp

An Ultra-lightweight miniature triaxial vibration transducer comprising of three voltage output piezo-electric accelerometer elements mounted orthogonally within a titanium block. It makes use of the independent shear plate sensing elements, ensuring a rugged and repeatable triaxial measurement under the most extreme conditions. This design will outperform single element devices. The AT/08 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. It can also be supplied with three 10/32 microdot sockets labelled X, Y and Z.

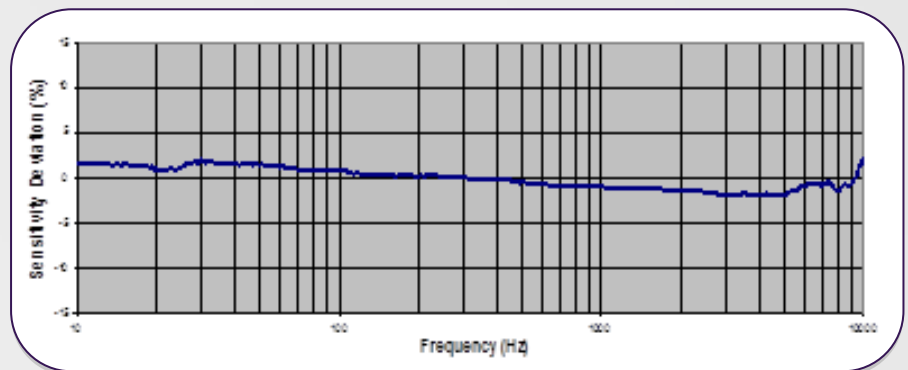
Extension cable assemblies of any length can be provided breaking out to 3 BNC plugs.

Standard sensitivity is nominally 0.4pC/g

The AT/08 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

Typical Frequency Response



	Metric	Imperial
Charge Sensitivity @ 20°C nom.	0.04pC/(m/s ²)	0.4pC/g
Resonant Frequency kHz	≥58kHz	≥58kHz
Cross Axis Error % max	≤5	≤5
Typical Frequency range (Z Axis) (±5%)	2 to 9kHz	2 to 9kHz
Typical Frequency range (X/Y Axis) (±5%)	2 to 9kHz	2 to 9kHz
Temperature Range	-50/ +200°C	-58/ +392°F
Sensitivity re 20°C	-5% @ -50°C +5% @ +125°C	-5% @ -58°F +10% @ +392°F
Max Continuous accn.g sine	49,033m/s ²	5000g
Capacitance pF	450	450
Max Shock g pK., rise time μ sec	98,100m/s ² , 30	10000g, 30
Case Material	Titanium	Titanium
Mounting	Adhesive	Adhesive
Weight	1.2g	0.04oz
Size	7 x 7 x 5.66mm	0.27 x 0.29 x 0.22in
Case Seal	Welded	Welded
Connector	1m low noise Integral Cable with 1/4-28 UNF sockets or 10-32 UNF Microdots	1m low noise Integral Cable with 1/4-28 UNF sockets or 10-32 UNF Microdots

