

ATI/14/TB Triaxial Piezo-Tronic IEPE Accelerometer (Case Isolated)

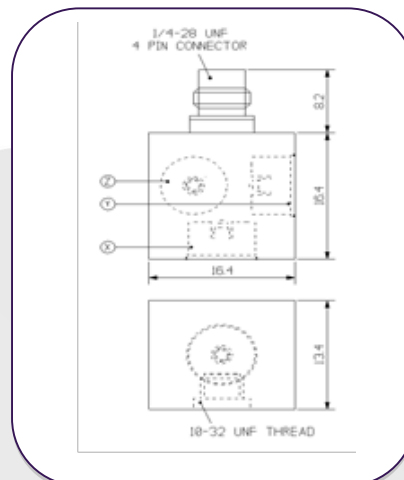
1mV/g up to 200mV/g $\pm 10\%$ 16.6gm Std Temp 125°C



A lightweight general purpose triaxial vibration transducer comprising of three voltage output piezo-electric sensing elements mounted orthogonally within a titanium block with welded construction. The ATI/14/TB is based upon the unique DJB Konic shear® design.

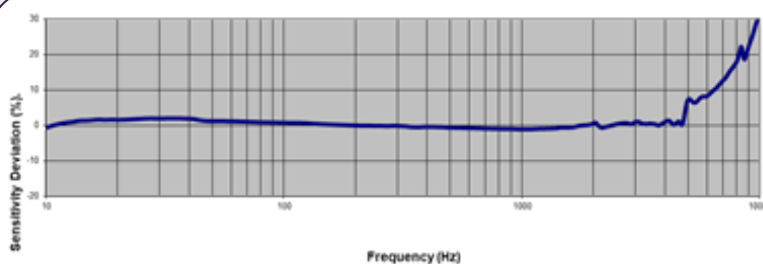
With a 1/4-28 UNF 4 pin connector and ruggedized single cables with three BNC labelled breakout leads the ATI/14/TB is well suited to Automotive/Aerospace applications. The ATI/14/TB is a case isolated version to ensure measurement accuracy on structures where grounding needs to be considered.

ATI/14/TB

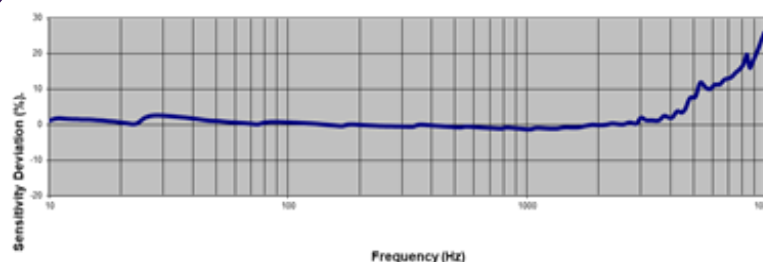


Typical Frequency Response

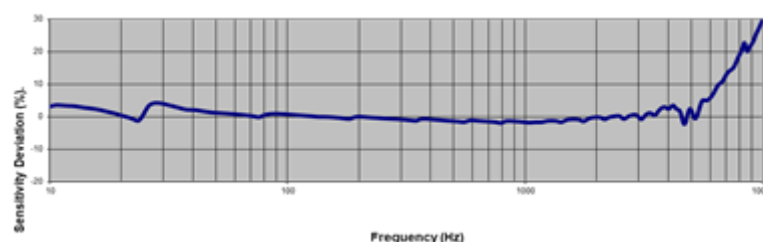
X



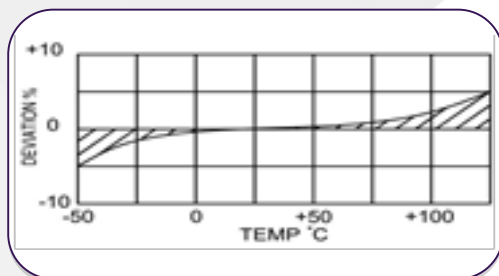
Y



Z



Temperature Response



Typical Spectral Noise (100mV/g):

1Hz	345 μ g/ $\sqrt{\text{Hz}}$
10Hz	42.8 μ g/ $\sqrt{\text{Hz}}$
100Hz	11.2 μ g/ $\sqrt{\text{Hz}}$
1kHz	5.67 μ g/ $\sqrt{\text{Hz}}$
10kHz	5.23 μ g/ $\sqrt{\text{Hz}}$

Please note: For information and reference only. Data should not be used as pass / fail criteria for calibration purposes

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1mV/g up to 200mV/g $\pm 10\%$ 16.6gm Std Temp 125°C



	Metric			Imperial		
Voltage Sensitivity @ 20°C	0.1mV/(m/s²)	1.02mV/(m/s²)	10.2mV/(m/s²)	1mV/g	10mV/g	100mV/g
Resonant Frequency	X/Y ≥20kHz Z ≥33kHz					
Typical Frequency range ±5% ±10%	1Hz – 6kHz 0.7Hz – 7kHz	1Hz – 6kHz 0.7Hz – 7kHz	1.5Hz – 6kHz 1Hz – 7kHz	1Hz – 6kHz 0.7Hz – 7kHz	1Hz – 6kHz 0.7Hz – 7kHz	1.5Hz – 6kHz 1Hz – 7kHz
Cross Axis Error	≤5%					
Insulation Resistance	10 ¹⁰ Ω at 250V					
Temperature Range	-50/ +125°C			-58/ +257°F		
Voltage Sensitivity deviation (20°C/68°F)	-5% @ -50°C		+5% @ +125°C	-5% @ -58°F		+5% @ +257°F
Supply Voltage	15/35 V DC					
Supply current	2-20mA					
Bias Voltage (20°C/68°F)	10/14 VDC					
Base Strain Sensitivity	≤0.002g/μ strain					
Max Continuous accn.g sine	49033m/s²			5000g		
Saturation limit equiv. g	49033m/s²	4903m/s²	490m/s²	5000g	500g	50g
Case Material	Titanium					
Mounting	10-32 UNF tapped hole					
Weight	16.6gm			0.59oz		
Case Seal	Welded					
Size	16.4 x 16.4 x 12mm AT/14			0.65 x 0.65 x 0.47in		
Connector	¼ -28UNF, 4 Pin Connector					

Options:

AT/14, AT/14/TB, ATI/14/TB

peak 
DISTRIBUTOR
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