

AT/13 Triaxial Piezo-Tronic IEPE Accelerometer

1mV/g up to 200mV/g $\pm 10\%$

25.9gm

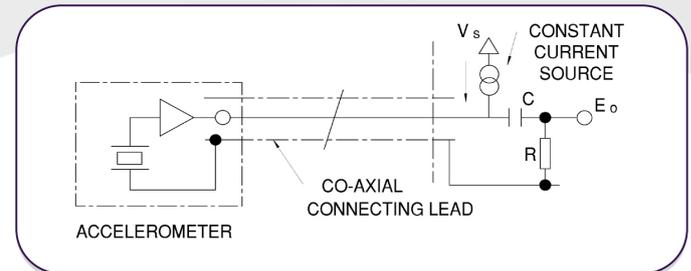
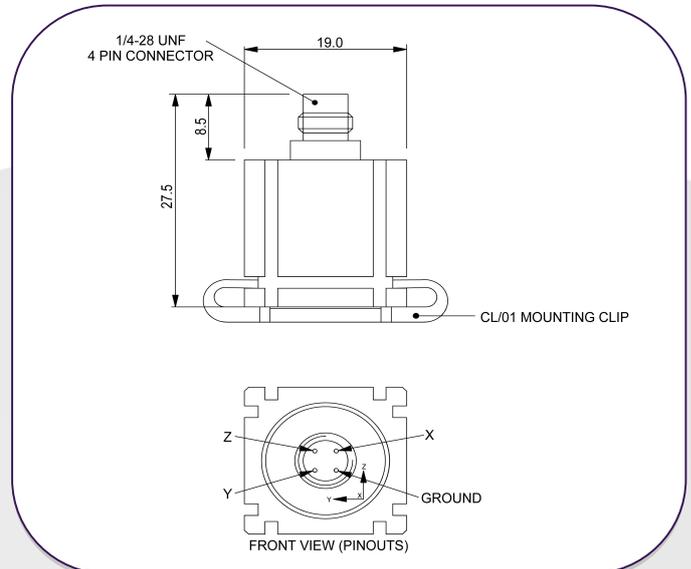
Std Temp 125°C



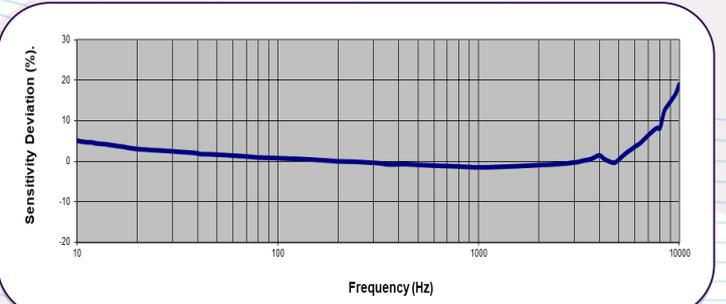
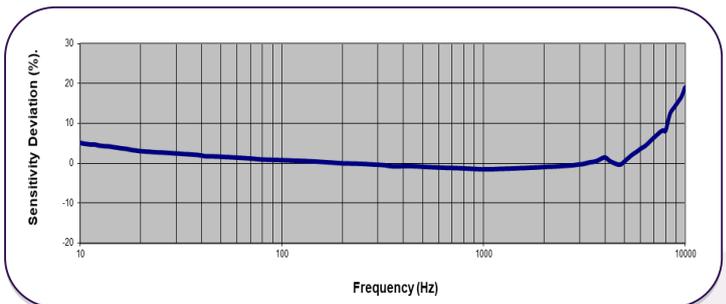
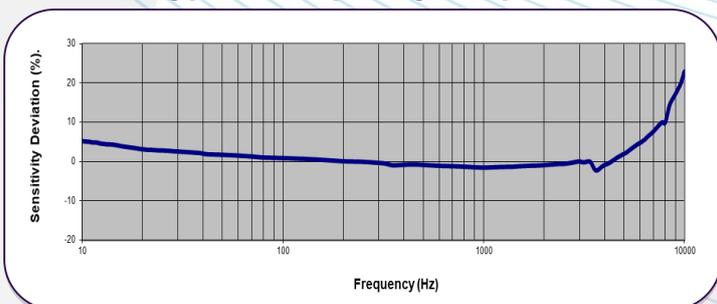
The AT/13 has been developed primarily for the Modal Analysis and Structural test marketplace with particular focus on the Automotive and Aerospace markets. The slotted sides and a slotted base allow it to be mounted on 5 of its faces by sliding into the accompanying clip. Users can then mount the clips using normal glue methods and slide the accelerometers in and out of the clip as required. This ensures perfect repeatability for tests without the need for leaving the accelerometer in situ. In addition, for large channel count testing, all accelerometers can be mounted in the same orientation making software set up easier.

Manufactured in Titanium for low mass and long life, the AT/13 has three individual Konic Shear® sensing elements internally mounted in the three orthogonal axes; this provides excellent performance in each axis with minimal cross axis effects.

Clip part number CL/01 can be ordered separately. Also available is the CL/02 which has a thicker base and can be modified to suit specific user applications.



Typical Frequency Response



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

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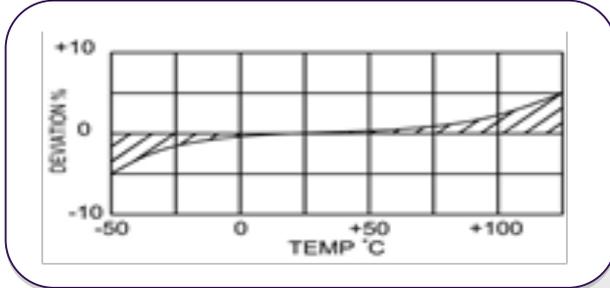
ISO 9001 – 00025363

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Temperature Response



Typical Spectral Noise (100mV/g)

1Hz	345 $\mu\text{g}/\sqrt{\text{Hz}}$
10Hz	42.8 $\mu\text{g}/\sqrt{\text{Hz}}$
100Hz	11.2 $\mu\text{g}/\sqrt{\text{Hz}}$
1kHz	5.67 $\mu\text{g}/\sqrt{\text{Hz}}$
10kHz	5.2 $\mu\text{g}/\sqrt{\text{Hz}}$

	Metric			Imperial		
	0.1mV/(m/s ²)	1.02mV/(m/s ²)	10.2mV/(m/s ²)	1mV/g	10mV/g	100mV/g
Voltage Sensitivity $\pm 10\%$	0.1mV/(m/s ²)	1.02mV/(m/s ²)	10.2mV/(m/s ²)	1mV/g	10mV/g	100mV/g
Resonant frequency	X / Y Axis 20kHz			Z Axis 33 kHz		
Typical Frequency Response $\pm 5\%$ $\pm 10\%$	1Hz – 5kHz 0.7Hz – 6kHz	1Hz – 5kHz 0.7Hz – 6kHz	2Hz – 5kHz 1Hz – 6kHz	1Hz – 5kHz 0.7Hz – 6kHz	1Hz – 5kHz 0.7Hz – 6kHz	2Hz – 5kHz 1Hz – 6kHz
Cross Axis error	$\leq 5\%$ max					
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	2/20 mA					
Output Impedance	$\leq 100\Omega$					
Bias voltage (20°C/68°F)	10/14 V DC					
Broadband resolution (grms)	0.02	0.012	0.002	0.02	0.012	0.002
Settling time within 10% bias	<5 sec					
Maximum Shock	49033m/s ²			5000g		
Saturation Limit	49033m/s ²	4903m/s ²	490.3m/s ²	5000g	500g	50g
Base Strain Sensitivity	0.001g/ μ strain					
Case material	Titanium Grade 2					
Mounting	Adhesive or CL/01 or CL/02 Mounting Clip					
Weight	25.9g			0.91oz		
Case seal	Welded					
Size	19 x 19 x 19mm			0.75 x 0.75 x 0.75in		
Connector	4 pin 1/4-28 UNF					

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