DJB Instruments
SENSING ENGINEERING INNOVATION

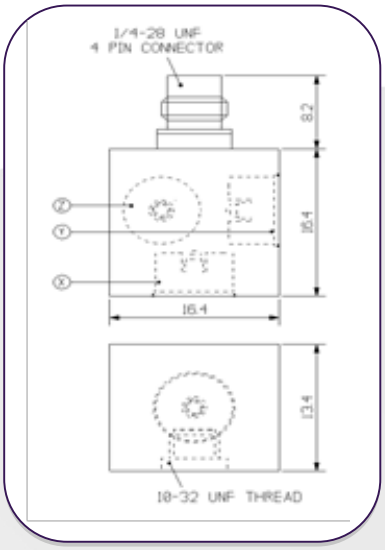
AT/04/TB Triaxial Piezoelectric Accelerometer

5pC/g nom. 16.6gm Max Temp 250 °C

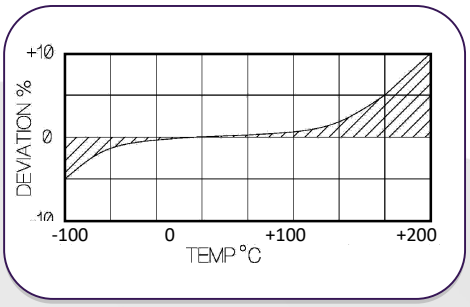
A lightweight general purpose PE charge output tri-axial vibration transducer comprising of three charge output Konic Shear® piezoelectric sensing elements mounted orthogonally within a titanium block with fully welded construction. The AT/04/TB is one of only 3 PE charge output single connector accelerometers in the world, all produced by DJB Instruments. This is possible due to the unique low noise four core cable supplied by DJB to reduce triboelectric noise.

With a 4pin ¼-28UNF industry standard connector the AT/04/TB is available with standard or ruggedized cables with three BNC labelled breakout leads. The AT/04/TB is well suited to Automotive / Aerospace applications. The AT/04/TB benefits from a tapped base for stud mounting.

Operation at -70°C is possible with a deviation of ±10/15%



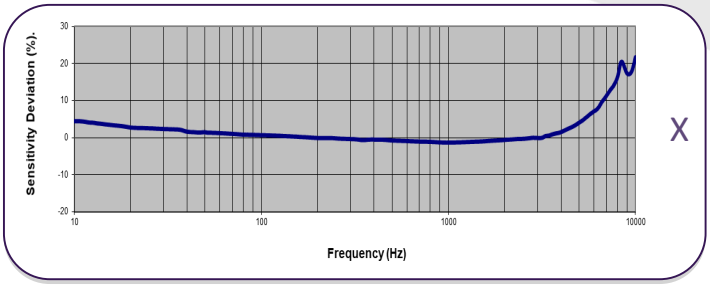
Temperature Response

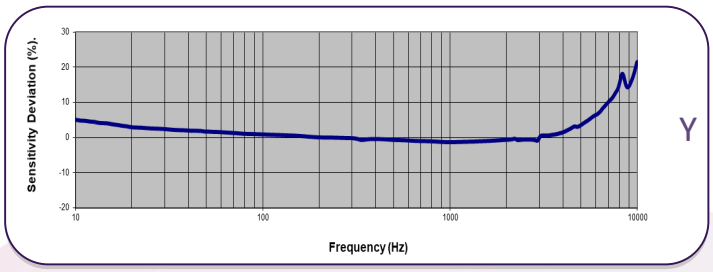


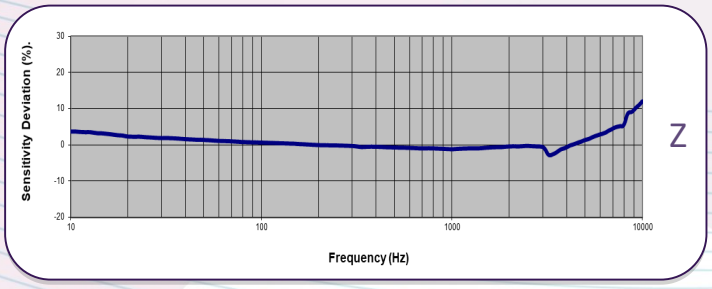
Options:
AT/04 – side entry
AT/04/TB – side entry, tapped base

	Metric	Imperial
Sensitivity @ 20°C nom.	0.51pC/(m/s^2)	5pC/g
Resonant Frequency kHz	Z Axis 33 kHz	X/ Y Axis 20 kHz
Typical Frequency. ±5% Response ±10%	1Hz - 6kHz 0.7Hz – 7kHz	
Cross Axis Error	≤5%	
Capacitance	600/ 900 pF	
Temperature Range	-50/ +250°C	-58/ +482°F
Base Strain Sensitivity	0.01g/μ strain	
Max Shock g pK, rise	10000, 30	
Case Material	Titanium	
Mounting	Tapped 10/32UNF hole	
Weight	16.6g	0.59oz
Case Seal	Welded	
Size	16.5 x 16.5 x 15.3mm	0.65 X 0.65 X 0.60in
Connector	4 pin ¼-28 UNF	

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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A UK company with UK-based manufacturing, assembly and calibration in-house.

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