

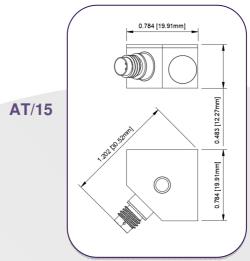
AT/15 Triaxial Piezo-Tronic IEPE Accelerometer through hole mount

1mV/g up to 200mV/g ±10% 14.1gm Std Temp 125°C

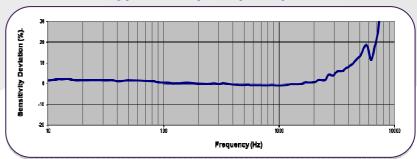


A lightweight general purpose triaxial vibration transducer comprising of three voltage output piezo-electric sensing elements mounted orthogonally within a titanium block with welded construction. The AT/15 is based upon the unique DJB Konic shear® design and offers a through hole mounting method which allows the user to orientate the connector and axes in the required direction for testing.

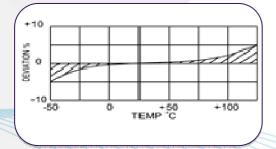
With a 1/4-28 UNF 4 pin connector centralised on one face and ruggedized single cables with three BNC labelled breakout leads the AT/15 is well suited to Automotive/Aerospace applications.

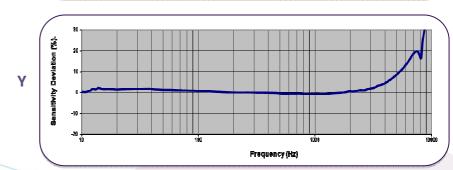


Typical Frequency Response



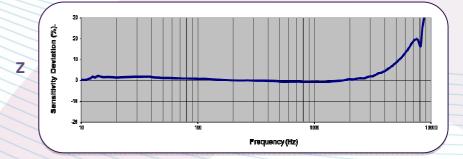
Temperature Response





Typical Spectral Noise (100mV/g):

| 1Hz | 345μg/√Hz |
|-------|------------|
| 10Hz | 42.8µg/√Hz |
| 100Hz | 11.2μg/√Hz |
| 1kHz | 5.67μg/√Hz |
| 10kHz | 5.23μg/√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 ±10% 14.1gm Std Temp 125°C



| | Metric | | | Imperial | | | | |
|--|--|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--|--|
| Voltage Sensitivity @ 20°C ±10% | 0.1mV/(m/s ²) | 1.02mV/(m/s ²) | 10.2mV/(m/s ²) | 1mV/g | 10mV/g | 100mV/g | | |
| Resonant Frequency | | | Z ≥33kHz | ' ≥33kHz | | | | |
| Typical Frequency range ±5% ±10% | 1Hz – 4kHz 0.7Hz – 5kHz | 1Hz – 4kHz 0.7Hz – 5kHz | 1.5Hz – 4kHz 1Hz – 5kHz | 1Hz – 4kHz 0.7Hz – 5kHz | 1Hz – 4kHz 0.7Hz – 5kHz | 1.5Hz – 4kHz 1Hz – 5kHz | | |
| Cross Axis Error | ≤5% max | | | | | | | |
| Amplitude non-linearity (%FS) | ≤1% | | | ≤1% | | | | |
| Temperature Range | -55/ +125°C | | | -67/ +257°F | | | | |
| Voltage Sensitivity deviation (20°C/68°F) | -5% @ | -55°C / +5% @ | +125°C | -5% @ -67°F / +5% @ +257°F | | | | |
| Supply Voltage | 15/35 V DC | | | | | | | |
| Supply current | 2-20mA | | | | | | | |
| Output Impedance | ≤100Ω | | | | | | | |
| Bias Voltage (20°C/68°F) | 10/14 VDC | | | | | | | |
| Settling time within 10% bias | <5 seconds | | | | | | | |
| Broadband resolution grms | 0.02 | 0.012 | 0.002 | 0.02 | 0.012 | 0.002 | | |
| Base Strain Sensitivity | ≤ 0.001g/μ strain | | | | | | | |
| Shock limit | 49033m/s ² | | | 5000g | | | | |
| Saturation limit equiv. g | 49033m/s ² | 4903m/s ² | 490m/s ² | 5000g | 500g | 50g | | |
| Case Material | Titanium | | | | | | | |
| Mounting | Through hole mounting, Ø3.6mm (0.142") | | | | | | | |
| Weight | 14.1gm 0.497oz | | | | | | | |
| Case Seal | Welded | | | | | | | |
| Size | 19.9mm x 19.9mm x 12.27mm 0.78in x 0.78in x 0.48in | | | | |).48in | | |
| Connector | 1/4 -28UNF, 4 Pin Connector | | | | | | | |

Options:

AT/15.xxxT - TEDS enabled xxx - sensitivity selection

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

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