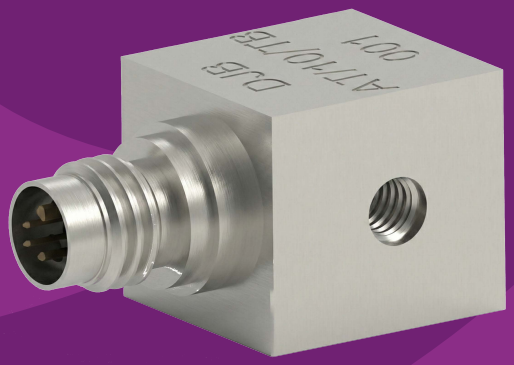
AT/10/TB.XX

Mono-axiallEPEaccelerometer

IEPE, Side Entry 1/4-28 UNF Connector, Adhesive Mount



KEY FEATURES

- Titanium case
- 8.4 grams
- 5 standard sensitivity options; 1mV/g to 100mV/g

INCLUDED WITH DEVICE

- SM/05 Mounting Stud

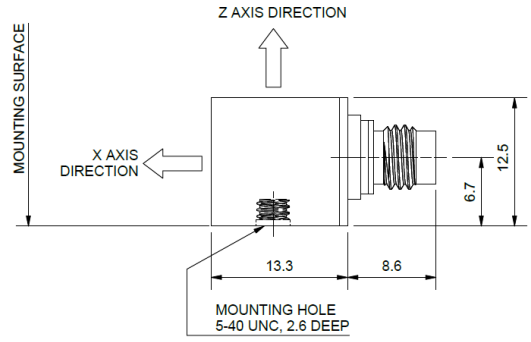
DEVICE / FAMILY OPTIONS

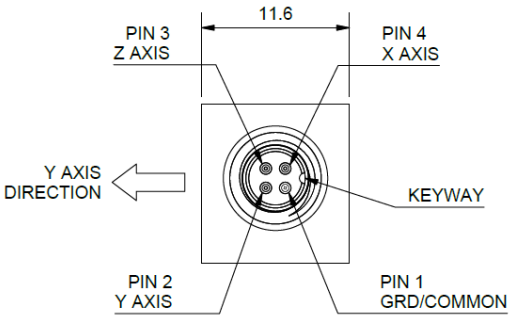
- A/10/TB.XXET - Extended temperature variant to 165°C
- A/10/TB.XXT - Transducer Electronic Datasheet (TEDS)
- Extended low & high frequency calibration
- Custom sensitivities available on request
- AT/10.XX adhesive mount

TYPICAL CABLE OPTIONS

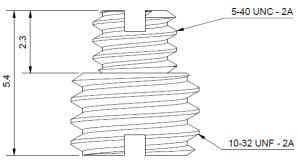
- 4S-1/ET25/27/4F/3S18/3/BC1 - 4 pin socket, co-axial cable ending in 3x BNC, 3 metres
- Other options and lengths available

AT/10/TB ACCELEROMETER DIMENSIONS





SM/05 MOUNTING STUD DIMENSIONS

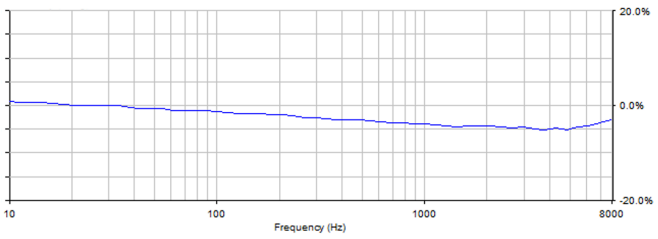


All measurements in millimeters (mm)

TECHNICAL SPECIFICATIONS

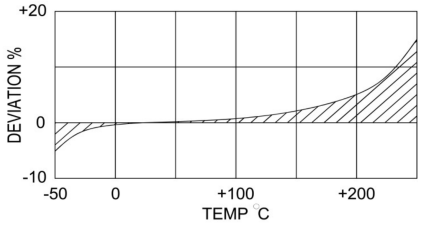
Performance	AT/10/TB.1	AT/10/TB.5	AT/10/TB.10	AT/10/TB.30	AT/10/TB.100
Voltage Sensitivity	1mV/g	5mV/g	10mV/g	30mV/g	100mV/g
Measurement Range	±5000g	±1000g	±500g	±160g	±50g
Frequency Response (±5%)	1Hz to 7kHz				
Frequency Response (±10%)	0.7Hz to 8kHz				
Resonant Frequency	≥58kHz				
Cross Axis Error	≤5%				
Maximum Shock Limit	5000g				
Non-linearity (% FS)	≤1%				
Base Strain Sensitivity	≤0.001g/με				
Broadband Resolution	0.002grms (100mV/g)				
Electrical Characteristics					
Supply Voltage	15V to 35V				
Supply Current	2mA to 20mA (max 2mA above 125°C)				
Bias Voltage	10V to 14V				
Output Imedance	≤100Ω				
Base Isolation Impedance	N/A				
Settling Time Constant	<6 seconds				
Physical					
Case Material	Titanium				
Connector	1/4 UNF, 4 pin				
Mounting	2.8mm 5-40 UNC Tapped Base				
Recommended Mounting Torque	0.8Nm				
Weight	8.4 grams				
Size (mm)	13.3 x 11.6 x 12.5mm				
(Inches)	0.52 x 0.46 x 0.49"				
Environmental					
Temperature Range (°C)	-50°C to +125°C (Extended temperature option to 165°C)				
(°F)	-58°F to +257°F (Extended Temperature option to 329°F)				
Total Mass Loss	<0.1%				

TYPICAL FREQUENCY RESPONSE



TYPICAL THERMAL RESPONSE

Response shows performance of piezoelectric sensing element, including beyond the stated operating limits.



TYPICAL SPECTRAL NOISE (100mV/g)

1 Hz - 393.4 µg/√Hz
10 Hz - 174.0 µg/√Hz
100 Hz - 32.1 µg/√Hz
1 kHz - 12.7 µg/√Hz
10 kHz - 5.1 µg/√Hz

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ISO 9001 – 00025363

SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.
ALL DEVICES CALIBRATED IN ACCORDANCE WITH BS ISO 16063-21:2003. ALL DEVICE CALIBRATIONS ARE UKAS TRACEABLE.

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Revision: **A**