

AT/10.XX

Tri-axial IEPE accelerometer

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



KEY FEATURES

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

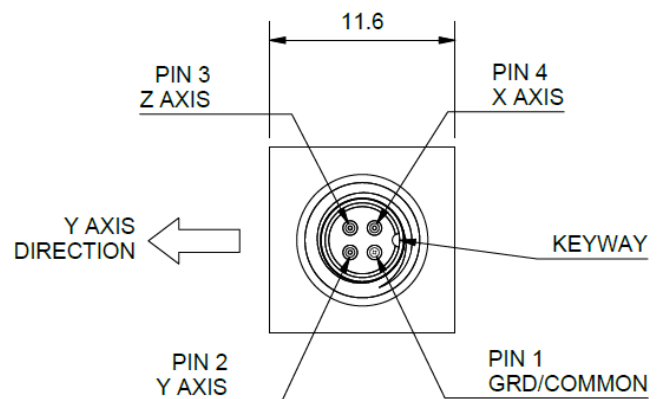
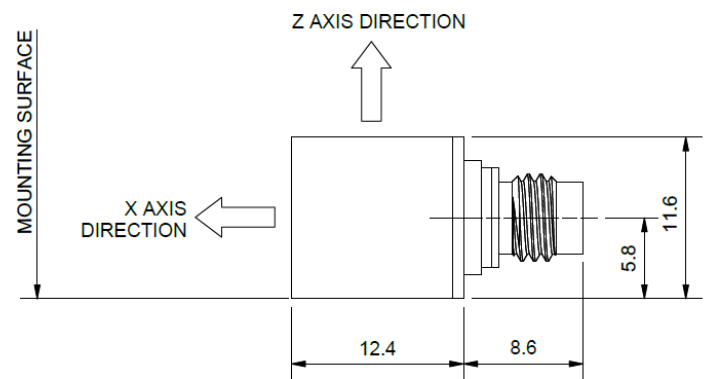
DEVICE / FAMILY OPTIONS

- ✓ AT/10.XXET - Extended temperature variant to 165°C
- ✓ AT/10.XXT - Transducer Electronic Datasheet (TEDS)
- ✓ Extended low & high frequency calibration
- ✓ Custom sensitivities available on request
- ✓ AT/10/TB.XX 5-40 UNC tapped base

TYPICAL CABLE OPTIONS

- ✓ 4S-1/ET25/27/4F/3TI8/3/BC1 - 4 pin socket, co-axial cable ending in 3x BNC, 3 metres
- ✓ Other options and lengths available

AT/10 ACCELEROMETER DIMENSIONS

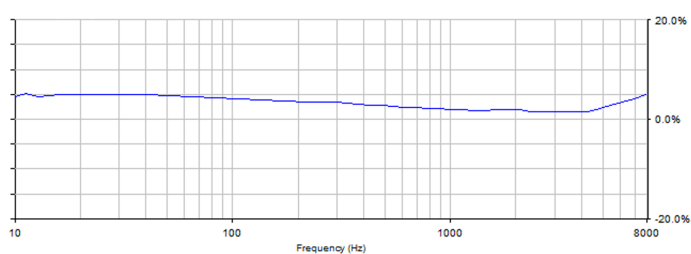


All measurements in millimeters (mm)

TECHNICAL SPECIFICATIONS

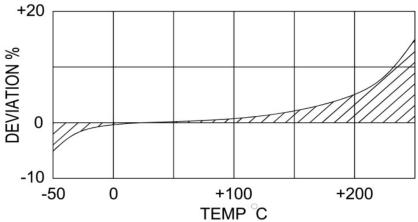
Performance	AT/10.1	AT/10.5	AT/10.10	AT/10.30	AT/10.100
Voltage Sensitivity (±10%)	1mV/g	5mV/g	10mV/g	30mV/g	100mV/g
Measurement Range	±5000g	±1000g	±500g	±160g	±50g
Frequency Response (±5%)	1Hz to 7kHz				
Frequency Response (±10%)	0.7Hz to 8kHz				
Resonant Frequency	≥58kHz				
Cross Axis Error	≤5%				
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 DC				
Supply Current	2mA to 20mA (max 2mA above 125°C)				
Bias Voltage	10V to 14V DC				
Output Imedance	<100Ω				
Base Isolation Impedance	N/A				
Settling Time Constant	<6 seconds				
Physical					
Case Material	Titanium				
Connector	1/4 UNF, 4 pin				
Mounting	Adhesive				
Recommended Mounting Torque	N/A				
Weight	6.9 grams				
Size (mm)	12.4 x 11.6 x 11.6mm				
(Inches)	0.49 x 0.46 x 0.46"				
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 (TML)	<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

DJB INSTRUMENTS UK LIMITED

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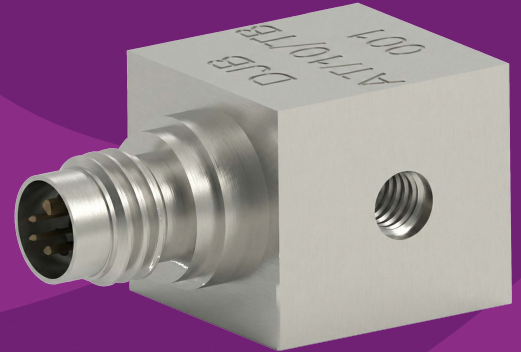
SPECIFICATIONS MAY BE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

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AT/10/TB.XX

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KEY FEATURES

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

INCLUDED WITH DEVICE

- ✓ SM/05 Mounting Stud

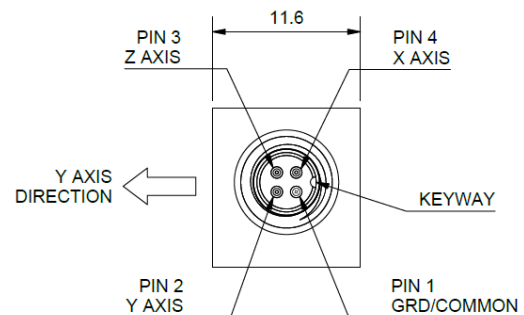
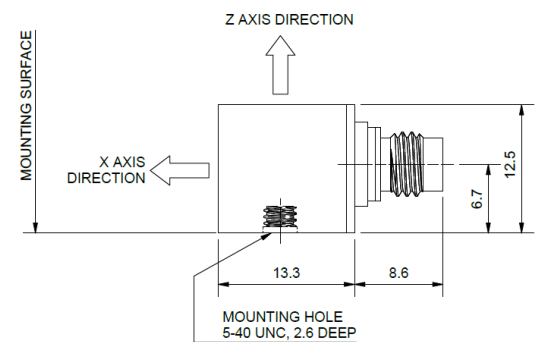
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- ✓ Extended low & high frequency calibration
- ✓ Custom sensitivities available on request
- ✓ AT/10.XX adhesive mount

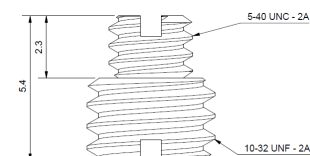
TYPICAL CABLE OPTIONS

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AT/10/TB ACCELEROMETER DIMENSIONS



SM/05 MOUNTING STUD DIMENSIONS

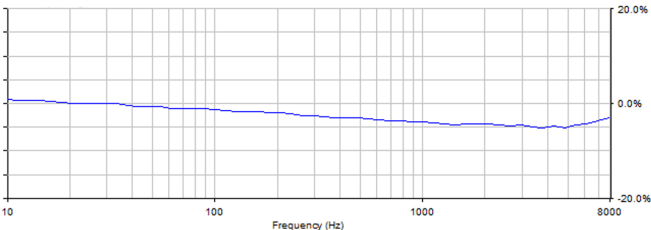


All measurements in millimeters (mm)

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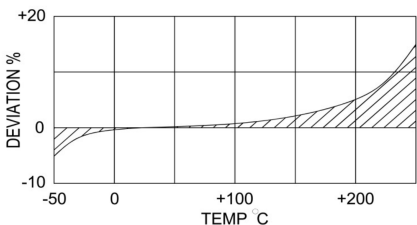
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Settling Time Constant	<6 seconds				
Physical					
Case Material	Titanium				
Connector	1/4 UNF, 4 pin				
Mounting	2.8mm 5-40 UNC Tapped Base				
Recommended Mounting Torque	0.8Nm				
Weight	8.4 grams				
Size (mm)	13.3 x 11.6 x 12.5mm				
(Inches)	0.52 x 0.46 x 0.49"				
Environmental					
Temperature Range (°C)	-50°C to +125°C (Extended temperature option to 165°C)				
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