

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

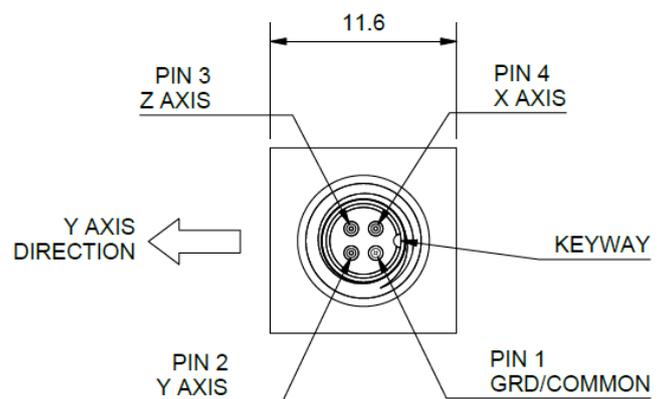
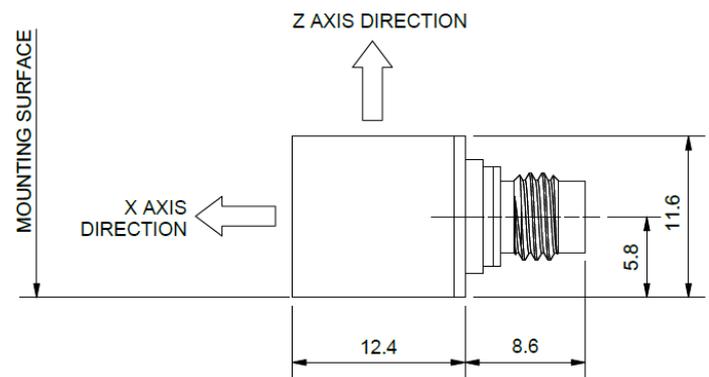
DEVICE / FAMILY OPTIONS

- ✓ 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

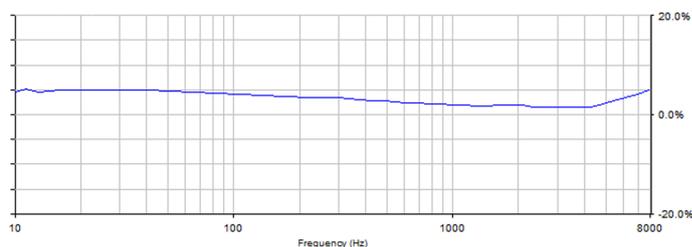


All measurements in millimeters (mm)

TECHNICAL SPECIFICATIONS

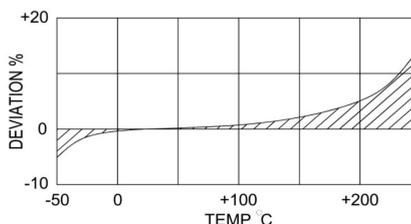
Performance	AT/10.1	AT/10.5	AT/10.10	AT/10.30	AT/10.100
Voltage Sensitivity ($\pm 10\%$)	1mV/g	5mV/g	10mV/g	30mV/g	100mV/g
Measurement Range	$\pm 5000g$	$\pm 1000g$	$\pm 500g$	$\pm 160g$	$\pm 50g$
Frequency Response ($\pm 5\%$)	1Hz to 7kHz				
Frequency Response ($\pm 10\%$)	0.7Hz to 8kHz				
Resonant Frequency	$\geq 58kHz$				
Cross Axis Error	$\leq 5\%$				
Maximum Shock Limit	5000g				
Non-linearity (% FS)	$\leq 1\%$				
Base Strain Sensitivity	$\leq 0.001g/\mu\epsilon$				
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 Impedance	$< 100\Omega$				
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 $\mu g/\sqrt{Hz}$
 10 Hz - 174.0 $\mu g/\sqrt{Hz}$
 100 Hz - 32.1 $\mu g/\sqrt{Hz}$
 1 kHz - 12.7 $\mu g/\sqrt{Hz}$
 10 kHz - 5.1 $\mu g/\sqrt{Hz}$

DJB INSTRUMENTS UK LIMITED

e: sales@djbinstruments.com

t: +44 (0) 1638 712288

w: djbinstruments.com



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.