

AT/10-1.XX

Tri-Axial IEPE Accelerometer

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



KEY FEATURES

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

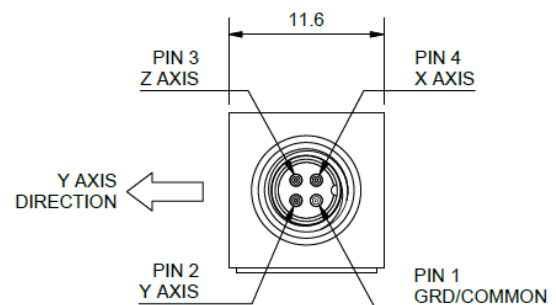
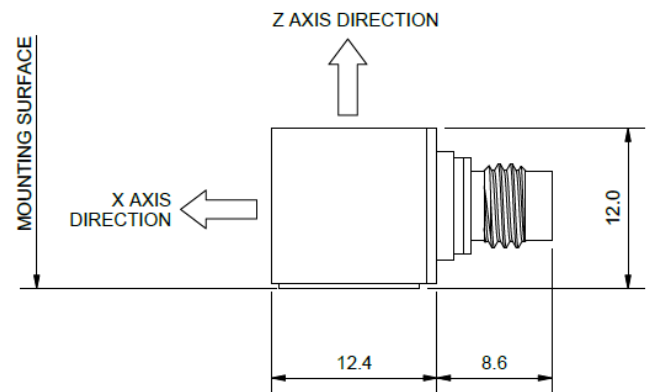
DEVICE / FAMILY OPTIONS

- ✓ AT/10.XXT - Transducer Electronic Datasheet (TEDS)
- ✓ Extended low & high frequency calibration Custom sensitivities available on request
- ✓ AT/10.XX Adhesive Mount
- ✓ AT/10/TB.XX 5-40 UNC tapped base

TYPICAL CABLE OPTIONS

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

AT/10-1.XX ACCELEROMETER DIMENSIONS

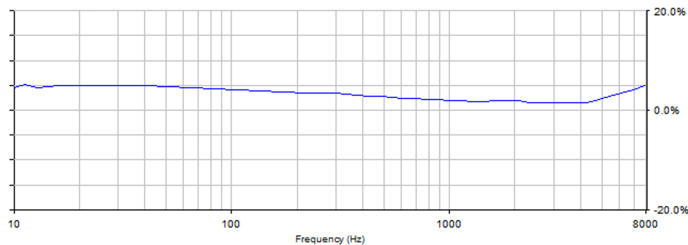


All measurements in millimeters (mm)

TECHNICAL SPECIFICATIONS

Performance	AT/10.10-1
Voltage Sensitivity (±10%)	10mV/g
Measurement Range	±500g
Frequency Response (±5%)	1Hz to 7kHz
Frequency Response (±10%)	0.7Hz to 8kHz
Resonant Frequency	≥58kHz
Temperature Sensitivity Deviation	-5.0% @ -50°C (-58°F), +5.0% @ +125°C (+257°F)
Cross Axis Error	≤5%
Maximum Shock Limit	5000g
Non-linearity (% FS)	≤1%
Base Strain Sensitivity	≤0.001g/μ ϵ
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	<100Ω
Base Isolation Impedance	>100MΩ
Settling Time Constant	<6 seconds
Physical	
Case Material	Titanium
Connector	1/4-28 UNF, 4 pin
Mounting	Adhesive, ceramic isolated base
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
(°F)	-58°F to +257°F
Total Mass Loss (TML)	<0.1%

TYPICAL FREQUENCY RESPONSE



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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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.