

AT/19.XX

Tri-axial IEPE accelerometer

IEPE, Side Entry 1/4-28 UNF Connector, 3x Tapped Base



KEY FEATURES

- ✓ Titanium case
- ✓ <3.5 grams
- ✓ 3 sensitivity options; 5mV/g, 10mV/g, 20mV/g

INCLUDED WITH DEVICE

- ✓ SP/07 mounting stud

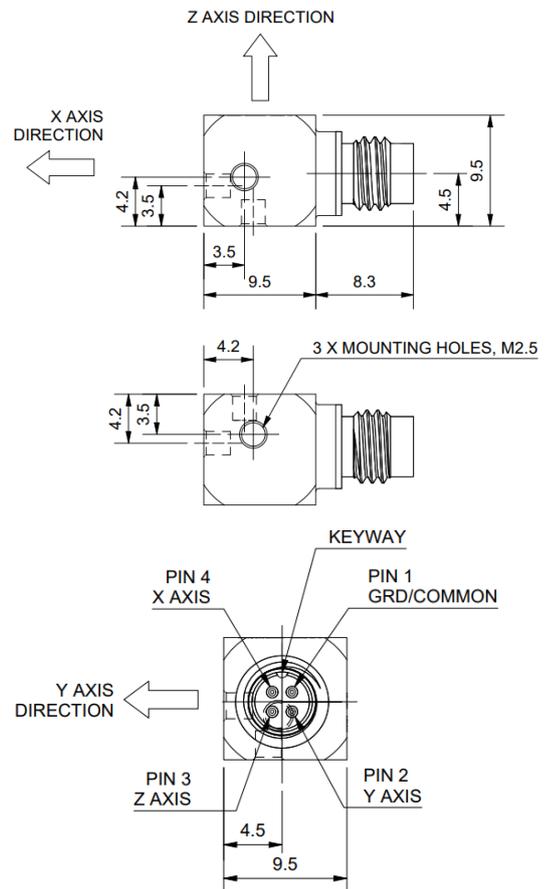
OPTIONS

- ✓ Extended low & high frequency calibration

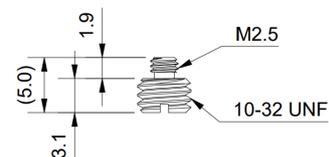
CABLE OPTIONS

- ✓ 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/19 ACCELEROMETER DIMENSIONS



SP/07 MOUNTING STUD DIMENSIONS

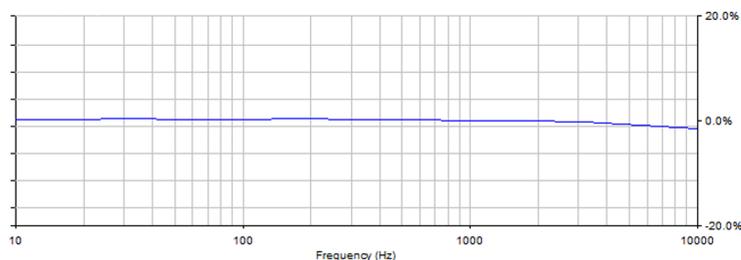


All measurements in millimeters (mm)

TECHNICAL SPECIFICATIONS

Performance	AT/19.5	AT/19.10	AT/19.20
Voltage Sensitivity ($\pm 10\%$)	5mV/g	10mV/g	20mV/g
Measurement Range	$\pm 1000g$	$\pm 500g$	$\pm 250g$
Frequency Response ($\pm 5\%$)	1Hz to 10kHz	1Hz to 10kHz	1Hz to 10kHz
Frequency Response ($\pm 10\%$)	0.5Hz to 11kHz	0.5Hz to 11kHz	0.5Hz to 11kHz
Resonant Frequency	$\geq 70kHz$	$\geq 70kHz$	$\geq 52kHz$
Temperature Sensitivity Deviation	5% @ -40°C (-58°F), -7% @ +120°C (+257°F)		
Cross Axis Error	$\leq 5\%$		
Maximum Shock Limit	6000g	5000g	3000g
Non-linearity (% FS)	$\leq 1\%$		
Broadband Resolution	0.002grms	0.001grms	0.0005grms
Electrical Characteristics			
Supply Voltage	20V to 30V DC		
Supply Current	2mA to 20mA		
Bias Voltage	8V to 12V		
Output Impedance	$\leq 100\Omega$		
Base Isolation Impedance	N/A		
Settling Time Constant	<1 second		
Physical			
Case Material	Titanium		
Connector	Side Entry, 1/4-28 UNF 4-Pin		
Mounting	1.9mm Tapped Base, M2.5		
Recommended Mounting Torque	N/A		
Weight	3.3 grams	3.4 grams	3.5 grams
Size (mm)	9.5 x 9.5 x 9.5mm		
(Inches)	0.37 x 0.37 x 0.37"		
Environmental			
Temperature Range (°C)	-50°C to +120°C		
(°F)	-58°F to +248°F		

TYPICAL FREQUENCY RESPONSE



TYPICAL SPECTRAL NOISE (10mV/g)

10 Hz - 150.0 $\mu g/\sqrt{Hz}$
 100Hz - 40.0 $\mu g/\sqrt{Hz}$
 1000 Hz - 20.0 $\mu g/\sqrt{Hz}$

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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.