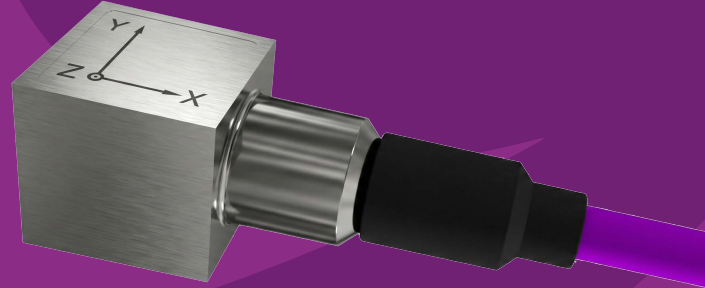


# AT/28.XX

## Tri-axial IEPE accelerometer

IEPE, Side Entry Integral Cable to 3x BNC Connectors, Adhesive Mount



### KEY FEATURES

- ✓ Titanium case
- ✓ 1.5 grams
- ✓ 2 sensitivity options; 5mV/g to 10mV/g

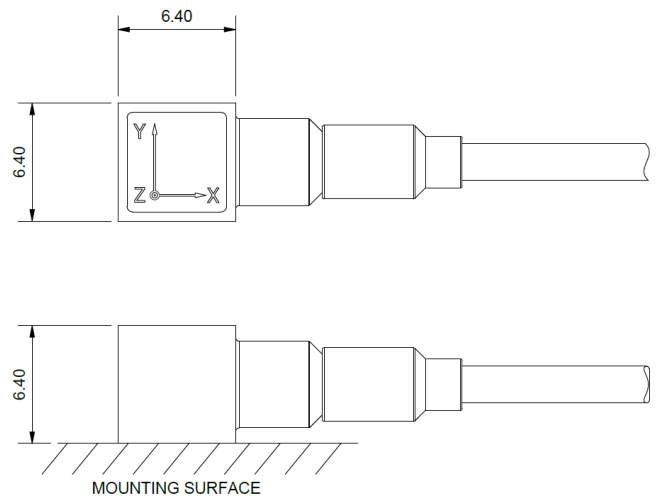
### DEVICE / FAMILY OPTIONS

- ✓ Extended low & high frequency calibration
- ✓ AT/28-1 Side Entry Integral Cable to 3x BNC Connectors, ceramic isolated adhesive mount

### CABLE OPTIONS

- ✓ Integral low-noise cable to 3x BNC connectors
- ✓ Customisable integral cable output connector
- ✓ Customisable cable length

### AT/28 ACCELEROMETER DIMENSIONS

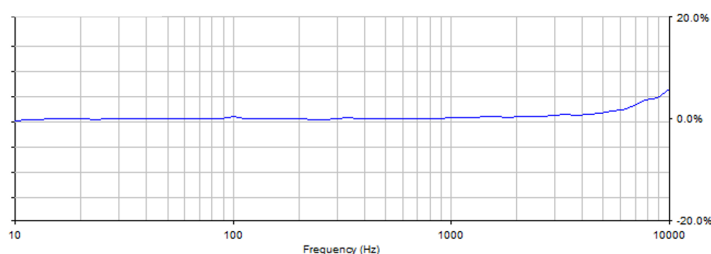


All measurements in millimeters (mm)

# TECHNICAL SPECIFICATIONS

Performance	AT/28.5	AT/28.10
Voltage Sensitivity ( $\pm 10\%$ )	5mV/g	10mV/g
Measurement Range	$\pm 1000g$	$\pm 500g$
Frequency Response ( $\pm 5\%$ )	5Hz to 8kHz	5Hz to 8kHz
Frequency Response ( $\pm 10\%$ )	2Hz to 12kHz	2Hz to 10kHz
Resonant Frequency		$\geq 50kHz$
Temperature Sensitivity Deviation	-0.07% @ -50°C (-58°F), +0.07% @ +125°C (+257°F)	-0.13% @ -50°C (-58°F), +0.13% @ +125°C (+257°F)
Cross Axis Error		$\leq 5\%$
Maximum Shock Limit	3000g	2000g
Non-linearity (% FS)		$\leq 1\%$
Broadband Resolution	0.002grms	0.001grms
<b>Electrical Characteristics</b>		
Supply Voltage		20V to 30V DC
Supply Current		2mA to 20mA (max 2mA above 125°C)
Bias Voltage		8V to 12V DC
Output Impedance		$\leq 100\Omega$
Settling Time Constant		<1 second
<b>Physical</b>		
Case Material		Titanium
Connector		3m integral cable, 4 core, ending in 3x BNC
Mounting		Adhesive
Recommended Mounting Torque		N/A
Weight		1.5 grams
Size (metric)		6.4 x 6.4 x 6.4mm
(imperial)		0.25 x 0.25 x 0.25"
<b>Environmental</b>		
Temperature Range (°C)		-50°C to +100°C
(°F)		-58°F to +212°F

**TYPICAL FREQUENCY RESPONSE**



**TYPICAL SPECTRAL NOISE (10mV/g)**

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

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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.