



# AT/16.XX

## Tri-axial IEPE Seat Pad accelerometer

IEPE, Integrated Cable with 3x BNC connectors,

### KEY FEATURES

- ✓ Piezoelectric ceramic sensing element
- ✓ SBR Rubber, 82 Shore A moulded pad
- ✓ <0.7 kilograms
- ✓ 2 sensitivity options; 10mV/g, 100mV/g

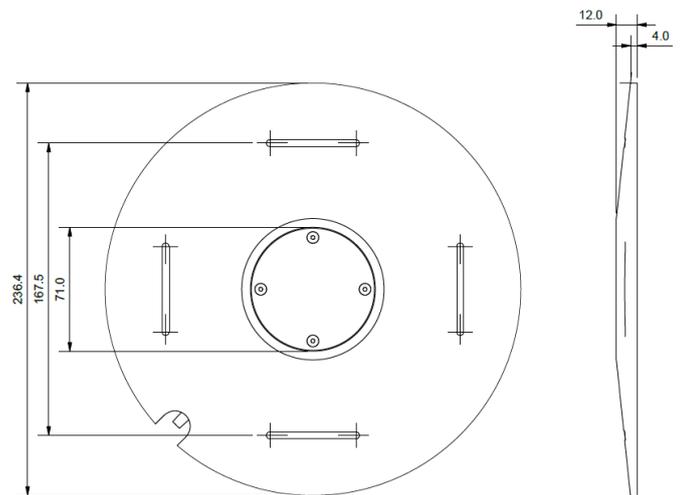
### OPTIONS

- ✓ AT/16.XXT - Transducer Electronic Datasheet (TEDS)

### CABLE OPTIONS

- ✓ Integrated 3 metre co-axial cable ending in 3x BNC
- ✓ Other connector options and customisable cable lengths

### AT/16 SEAT PAD ACCELEROMETER DIMENSIONS

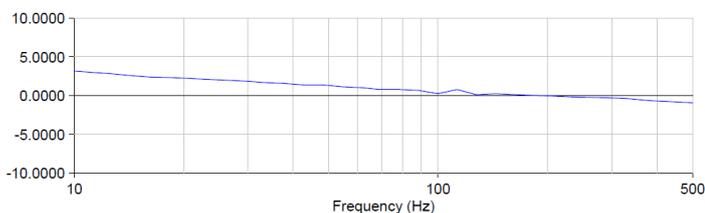


All measurements in millimeters (mm)

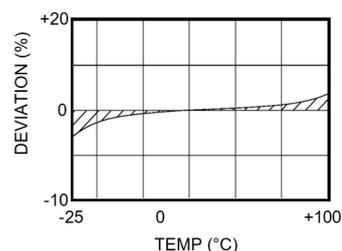
# TECHNICAL SPECIFICATIONS

Performance	AT/16.10	AT/16.100
Voltage Sensitivity ( $\pm 10\%$ )	10mV/g	100mV/g
Measurement Range	$\pm 500g$	$\pm 50g$
Frequency Response ( $\pm 5\%$ )	1Hz to 500Hz	
Frequency Response ( $\pm 10\%$ )	N/A	
Resonant Frequency	$\geq 17kHz$	
Maximum Shock Limit	5000g	
Non-linearity (% FS)	$\leq 1\%$	
Broadband Resolution	$< 0.01grms$ (100mV/g)	
<b>Electrical Characteristics</b>		
Supply Voltage	15V to 35V DC	
Supply Current	2mA to 20mA (max 2mA above 125°C)	
Bias Voltage	10V to 14V DC	
Output Impedance	$\leq 100\Omega$	
Settling Time Constant	$< 5$ seconds	
<b>Physical</b>		
Pad Material	SBR Rubber, 82 Shore A	
Connector	3x BNC standard (customisable)	
Weight	$< 0.7$ kilograms	
Size (metric)	$\varnothing 236.4$ mm, 12mm max height	
(imperial)	0.37 " (A/F) x 0.39 "	
<b>Environmental</b>		
Temperature Range ( $^{\circ}C$ )	$-25^{\circ}C$ to $+100^{\circ}C$	
( $^{\circ}F$ )	$-13^{\circ}F$ to $+212^{\circ}F$	

TYPICAL FREQUENCY RESPONSE



TYPICAL THERMAL RESPONSE



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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.