



A/120/V.XX

Mono-axial IEPE accelerometer

IEPE, Side Entry 10-32 Microdot Connector, Tapped Base

KEY FEATURES

- ✓ Titanium case
- ✓ 13.8 grams
- ✓ 7 standard sensitivity options; 1mV/g to 1000mV/g

INCLUDED WITH DEVICE

- ✓ A/120/V.XX (with XX being required sensitivity)
- ✓ SP/02 Mounting Stud

DEVICE / FAMILY OPTIONS

- ✓ A/120/V.XXET - Extended temperature variant to 165°C
- ✓ A/120/V.XXT - Transducer Electronic Datasheet (TEDS)
- ✓ Extended low & high frequency calibration
- ✓ Custom sensitivities available on request
- ✓ Alternative/additional stud options

A/120/V.XX Side Entry 10-32 Microdot, 10-32 UNF Tapped Base

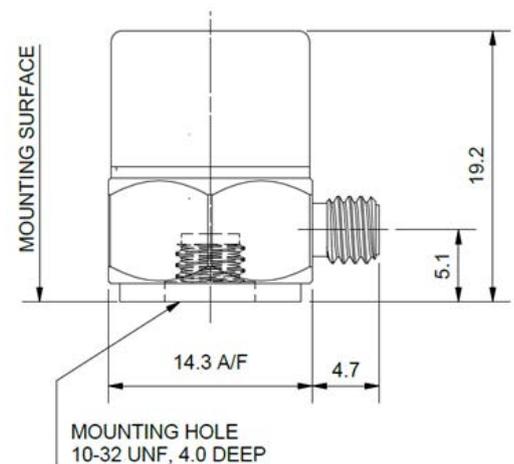
A/120/VT.XX Top Entry 10-32 Microdot, 10-32 UNF Tapped Base

A/120/VTC.XX Top Entry TNC, 10-32 UNF Tapped Base

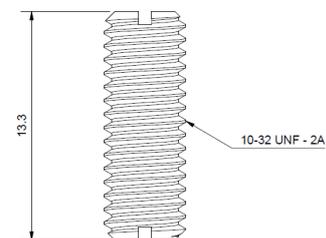
TYPICAL CABLE OPTIONS

- ✓ MP2/BC1/S18/30 - Microdot to BNC, FEP jacket co-axial, 3 meters
- ✓ MP2/MP2/S18/30 - Microdot to Microdot, FEP jacket co-axial, 3 meters
- ✓ Other options and lengths available

A/120/V ACCELEROMETER DIMENSIONS



SP/02 MOUNTING STUD DIMENSIONS

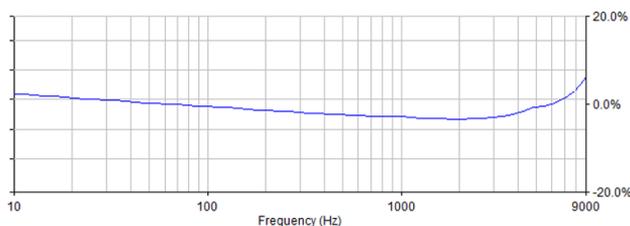


All measurements in millimeters (mm)

TECHNICAL SPECIFICATIONS

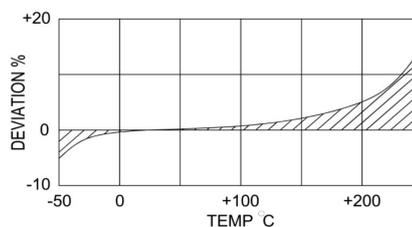
Performance	A/120/V.1	A/120/V.5	A/120/V.10	A/120/V.30	A/120/V.100	A/120/V.500	A/120/V.1000
Voltage Sensitivity ($\pm 10\%$)	1mV/g	5mV/g	10mV/g	30mV/g	100mV/g	500mV/g	1000mV/g
Measurement Range	$\pm 5000g$	$\pm 1000g$	$\pm 500g$	$\pm 160g$	$\pm 50g$	$\pm 10g$	$\pm 5g$
Frequency Response ($\pm 5\%$)	1Hz to 7kHz	1Hz to 7kHz	1Hz to 7kHz	1Hz to 7kHz	1Hz to 7kHz	1Hz to 7kHz	1Hz to 4kHz
Frequency Response ($\pm 10\%$)	0.7Hz to 8kHz	0.7Hz to 8kHz	0.7Hz to 8kHz	0.7Hz to 8kHz	0.7Hz to 8kHz	0.7Hz to 8kHz	0.7Hz to 5kHz
Resonant Frequency	$\geq 33kHz$						
Cross Axis Error	$\leq 5\%$						
Maximum Shock Limit	5000g						
Non-linearity (% FS)	$\leq 1\%$						
Base Strain Sensitivity	$< 0.01g/\mu\epsilon$						
Broadband Resolution	0.0025 grms (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	$\leq 100\Omega$						
Base Isolation Impedance	N/A						
Settling Time Constant	< 3 seconds						
Physical							
Case Material	Titanium						
Connector	Side Entry, 10-32 microdot						
Mounting	4mm Tapped Hole, 10-32 UNF						
Recommended Mounting Torque	1.2Nm						
Weight	13.8 grams						
Size (mm)	14.3mm (A/F) x 19.2mm						
(Inches)	0.56" (A/F) x 0.76"						
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 - 732 $\mu g/\sqrt{Hz}$
 10 Hz - 28.7 $\mu g/\sqrt{Hz}$
 100 Hz - 8.9 $\mu g/\sqrt{Hz}$
 1 kHz - 4.75 $\mu g/\sqrt{Hz}$
 10 kHz - 3.99 $\mu g/\sqrt{Hz}$

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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.