

A/128/V1 Miniature Piezo-Tronic IEPE Accelerometer

1mV/g up to 10mV/g $\pm 10\%$ 0.19gm Max temp 200 °C

The A/128/V1 is the worlds smallest fully welded stainless steel accelerometer.

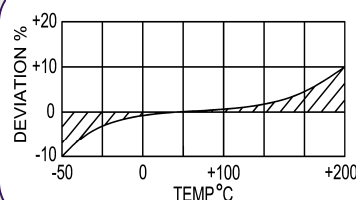
It's ultra-miniature design and light weight renders it transparent in the vast majority of light weight structure vibration measurement applications. It features an in-line voltage converter with an all welded construction and a piezo-ceramic shear plate sensing element.

The A/128/V1 is adhesive mounted. A detachment tool is provided to shear adhesive joints. Shock removal is to be avoided as being deleterious to the integrity of the transducer. Abrasive cleaning of the attachment face will reduce base thickness over time; sparing use of adhesive will aid longevity. Signal outlet is via a 10-32 UNF microdot socket on the QF/28, in-line on the cable assembly.

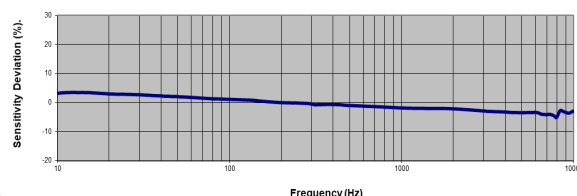
Typical Spectral Noise (10mV/g)

1Hz	987 μ g/ $\sqrt{\text{Hz}}$
10Hz	282 μ g/ $\sqrt{\text{Hz}}$
100Hz	84 μ g/ $\sqrt{\text{Hz}}$
1kHz	39 μ g/ $\sqrt{\text{Hz}}$
10kHz	39 μ g/ $\sqrt{\text{Hz}}$

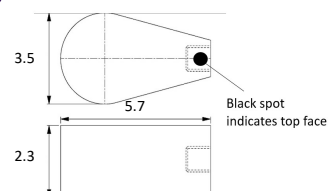
Temperature Response (QF/28 not included)



Typical Frequency Response



A/128/V1



	Metric			Imperial		
Voltage sensitivity ±10%	0.102 mV/(m/s²)	0.51 mV/(m/s²)	1.02 mV/(m/s²)	1mV/g	5mV/g	10mV/g
Resonant Frequency	≥45kHz					
Typical Frequency Response ±5% ±10%	1Hz - 12kHz 0.7Hz – 14kHz	1Hz - 12kHz 0.7Hz – 14kHz	2Hz – 12kHz 0.7Hz–14kHz	1Hz - 12kHz 0.7Hz – 14kHz	1Hz - 12kHz 0.7Hz – 14kHz	2Hz – 12kHz 0.7Hz – 14kHz
Cross Axis error	≤5%					
Temperature Range	-50/ +200°C (not including QF/28)			-58/+392°F (not including QF/28)		
Voltage sensitivity deviation (20°C/68°F)	-5% @ - 50°C +5% @ + 125°C ±10% @ +200°C			-5% @-58°F +5% @+257°F ±10% @+392°F		
Supply Voltage	18/ 35 V DC					
Supply Current	2/20 mA					
Bias Voltage	10/14 V DC					
Settling time to 90% final val.	<5 sec					
Maximum Continuous level	49033m/s²			5000g		
Max Shock level, rise time μs	98100 m/s², 20			10000g, 20		
Saturation Limit, equiv.g	49033m/s²	9807m/s²	4903m/s²	5000g	1000g	500g
Base Strain Sensitivity	≤ 5%					
Case Material	Stainless steel 303 S31					
Mounting	Adhesive					
Weight	0.19g			0.007oz		
Size	5.7 x 3.5 x 2.3mm			0.22 x 0.14 x 0.09in		
Connector	QF-28 (10-32 UNF Microdot)					

Please note: For information and reference only. Data should not be used as pass/fail criteria for calibration purposes

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