DJB Instruments
SENSING ENGINEERING INNOVATION

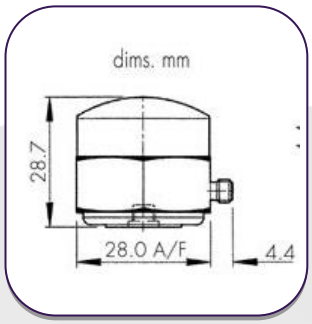
A/1600/V, A/1600/VT
Micro g Piezoelectric IEPE Accelerometer

1V/g up to 10V/g ±10%. 112gm Std temp 125°C (185°C HT)

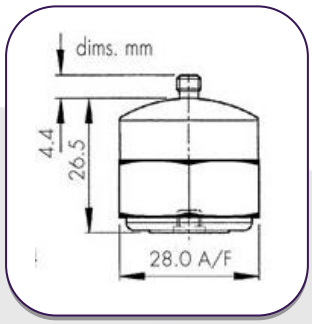
Ultra high output, multiple shear plate voltage accelerometer. Shear plate construction provides near total isolation from mechanical inputs other than acceleration, thus safe guarding measurement integrity in applications where vibration is accompanied by high dynamic strain levels.

Generalizing, these conditions are prevalent where modal frequencies are low, and are thus associated with vibration surveys of large structures.
Applications also include seismic measurements for sensitive instruments installation surveys.

A/1600/V



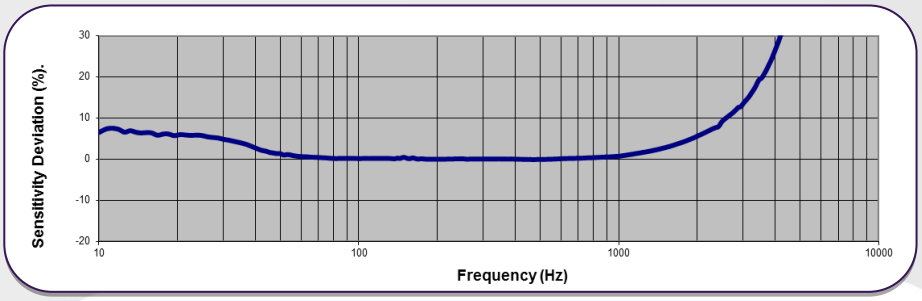
A/1600/VT



Spectral Noise:

1Hz	79.2µg/√Hz
10Hz	6.8µg/√Hz
100Hz	0.9ng/√Hz
1kHz	0.17ng/√Hz
10kHz	0.08ng/√Hz

Typical Frequency Response



	Metric		Imperial	
Voltage sensitivity ±10%	0.1V/(m/s²)	1.02V/(m/s²)	1V/g	10V/g
Resonant frequency kHz	≈8		≈8	
Frequency Response	0.7Hz - 2kHz ±5% 0.5Hz - 3kHz ±10%	5Hz - 2kHz ±5% 2Hz - 3kHz ±10%	0.7Hz - 2kHz ±5% 0.5Hz - 3kHz ±10%	5Hz - 2kHz ±5% 2Hz - 3kHz ±10%
Temperature range	-50/+185˚C (HT)		-58/+365˚F (HT)	
Voltage Sensitivity Deviation re 20°C/68 °F	-5% @ -50°C +5% @ +125°C +/-10% @ +185°C		-5% @ -58°F +5% @ +257°F +/-10% @ +365°F	
Case Material	s/steel 303 S31		s/steel 303 S31	
Max continuous accn. g sine	6,864m/s²		700g	
Supply Voltage V DC	15/ 35		15/ 35	
Supply Current mA	2/ 20		2/ 20	
Bias Voltage V DC(20˚C)	8.5/ 9.5		8.5/ 9.5	
Case Material	303 S31		303 S31	
Mounting	Base tapped 10/32 UNF x 4mm deep		Base tapped 10/32 UNF x 0.16in deep	
Weight	112gm		3.95oz	
Connector	10-32 UNF Microdot		10-32 UNF Microdot	
Case Seal	Welded, hermetic connector (TNC)		Welded, hermetic connector (TNC)	
Size	28 (A/F) x 28.7mm		1.10 (A/F) x 1.13in	

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A UK company with UK-based manufacturing, assembly and calibration in-house.

bsi. ISO 9001 Quality Management