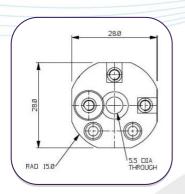
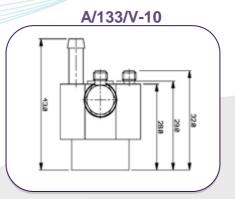


## A/133/V-10 High Temperature, Water cooled Piezoelectric IEPE Triaxial Accelerometer

1mV/g up to 250mV/g ±10% 38gms 900°C max surface temperature with water flow







## **Options**

- Wideband temperature calibration
- Voltage output A/33, A/33-1, A/133/V-3, A/133V-10

The A/133/V IEPE range of voltage triaxial accelerometers feature ultra high temperature usage on surfaces up to 900°C. Developed as solutions for Vibration Measurements on exhaust pipes or engine turbo collectors, they have since found uses in many other high temperature test applications.

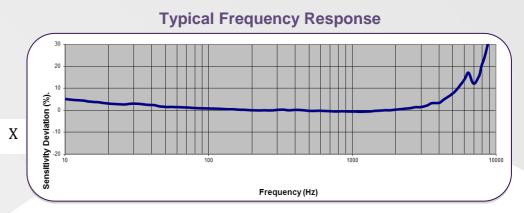
Mono-axial versions can also be supplied on request, axis selection to suit customer application.

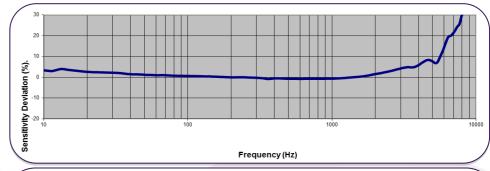
Water flow is via two titanium pipes and it's recommended that the flow rate of 0.5 litres/min is maintained permanently when in use at high temperature. Failure to do so could lead to injury and damage to the unit.

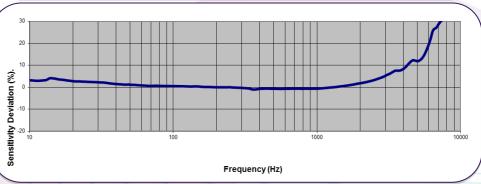
It is recommended at the highest temperatures a constant supply of chilled cooling water should be used.

The A/133/V consists of 3 mono axial voltage accelerometers mounted into an anodized aluminium block. This allows the advantage of single axis repair if required.

Accessories:
Silicone tubing
General purpose 12V pump







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

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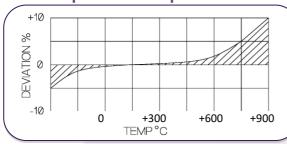


## A/133/V-10 High Temperature, Water cooled Piezoelectric IEPE Triaxial Accelerometer

1mV/g up to 250mV/g ±10% 38gms 900°C max surface temperature with water flow



**Temperature Response** 



## **Spectral Noise**

1Hz	761 μg/√Hz
10Hz	193 μg/√Hz
100Hz	37.8 µg/√Hz
1kHz	11.2 µg/√Hz
10kHz	4.2 µg/√Hz

	Metric	Imperial	
Voltage sensitivity ±10%	1.02 mV/(m/s <sup>2</sup> ) 10.2 mV/(m/s <sup>2</sup> )	10 mV/g 100 mV/g	
Resonant Frequency	≈15kHz		
Typical Frequency Range ±5% ±10%	1Hz - 3kHz 0.7Hz – 4kHz		
Cross Axis error	≤5% max		
Temperature Range Without water flow With water flow Max continuous accn. g sine	-50/ +125°C +900°C (surface temp) 4903m/s <sup>2</sup>	-58/ +257°F +1652°F (surface temp) 500g	
Supply voltage	15/35 V DC		
Supply current	2/20mA		
Bias voltage (20°C / 68°F)	9.5 V DC		
Setting time to 90% final val.	1 sec		
Noise level equiv. mg	3		
Base Strain Sensitivity	≤ 5%		
Case Material	Inserts s/steel 303 S31 Mtg. block anodised al. alloy		
Mounting	1 x Ø2.22mm through hole		
Weight	38gms	1.34oz	
Case seal	Welded hermetic connector		
Size	28 x 28 x 42mm	1.1 x 1.1 x 1.65in	
Connector	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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