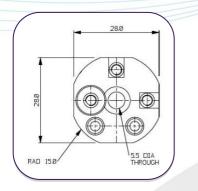


A/133/V-10 High Temperature, Water cooled Piezoelectric IEPE Triaxial Accelerometer 1mV/g up to 250mV/g ±10% 46gms

900°C max surface temperature with water flow





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.

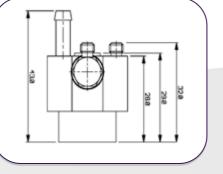
Mono-axial versions can also be supplied on request, axis selection to suit customer application.

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.

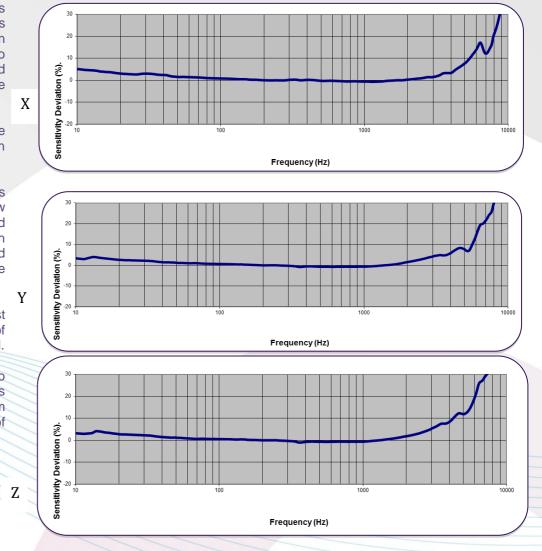
Accessories: Silicone tubing General purpose 12V pump A/133/V-10



Options

A/133/V-3 – flat base block for mounting on flat surfaces A/133V-10 – raised base for customer modification on curved or irregular shaped mounting surface

Typical Frequency Response



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

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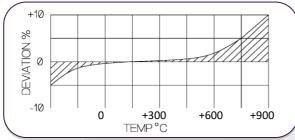




A/133/V-10 High Temperature, Water cooled Piezoelectric IEPE Triaxial Accelerometer 1mV/g up to 250mV/g ±10% 38gms 900°C max surface temperature with water flow



Temperature Response



Spectral Noise		
1Hz 10Hz 100Hz 1kHz 10kHz	761 μg/√Hz 193 μg/√Hz 37.8 μg/√Hz 11.2 μg/√Hz 4.2 μg/√Hz	
IUKHZ	4.2 µg/∿⊓z	

	Metric		Imperial		
Voltage sensitivity ±10%	1.02 mV/(m/s ²)	10.2 mV/(m/s ²)	10 mV/g	100mV/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		-50/ +125°C +900°C (surface temp)		-58/ +257°F +1652°F (surface temp)	
Max continuous accn. g sine	4903m/s ²	490m/s ²	500g	50g	
Supply voltage	15/35 VDC				
Supply current	2/20mA				
Bias voltage (20°C / 68°F)	as voltage (20°C / 68°F) 10/14 VI				
Setting time within 10% bias	≤3 sec				
Broadband resolution grms	0.003				
Base Strain Sensitivity	≤0.001g/µ strain				
Case Material	Inserts s/steel 303 S31 Mtg. block anodised al. alloy				
Mounting		1 x Ø2.22mm	through hole		
Weight	46gms		1.62oz		
Case seal	Welded inserts bonded into hard anodized aluminium body				
Size	28 x 28 x 42mm		1.1 x 1.1 x 1.65in		
Connector	3 x 10-32 UNF Microdot				

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