

PIEZOELECTRIC ACCELEROMETER

- Very High Sensitivity at 1000 pC/g
- Low-g Measurement Applications
- Frequency Response Down to 0.3 Hz
- Side Connector
- Stud Mounted

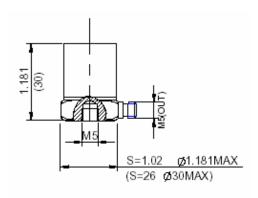


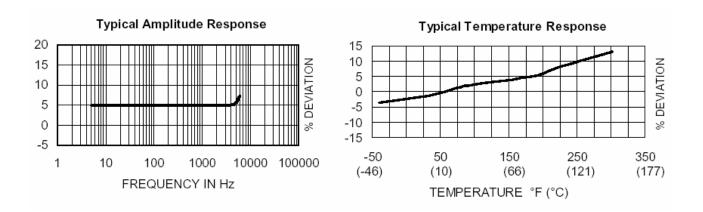
The Sensors Model 132 is a stud mounted piezoelectric accelerometer designed for general vibration measurement on structures and objects. The high sensitivity (1000 picocoulombs per g) makes it very useful lowg measurement applications. The accelerometer is a self-generating device that requires no external power source for operation.

The Model 132 design is sealed against external contamination. Signal ground is connected to the outer case of the unit. When used with an isolated mounting stud, the accelerometer is electrically isolated from ground. The accelerometer features a M5 top connector that is used with low-noise coaxial cable for error-free operation.



MODEL: CA-YD-132







SPECIFICATIONS

The following performance specifications conform to ISA-RP-37.2 (1964) and are typical values, referenced at +75°F (+24°C) and 100 Hz, unless otherwise noted. Calibration data, traceable to National Institute of Standards and Technology (NIST), is supplied.

	UNITS			
DYNAMIC CHARACTERISTICS	OMITO			
Axial Sensitivity	pC/g	1000 (850 mir	imum)	
Transverse Sensitivity	%	≤ 5	=	
Frequency Response	1.1=	2.	nplitude Response	
Resonance Frequency Amplitude Response [1]	Hz	7,000		
± 5 %	Hz	1 - 2,000		
<u>+</u> 1 dB	Hz	0.3 - 2,500		
Temperature Response	0/		mperature Response	
Amplitude Linearity	%	< 1		
ELECTRICAL CHARACTERISTICS				
Output Polarity			irected from the base into	
Desistance	00		is defined as positive	
Resistance Capacitance	GΩ pF	>1 500		
Grounding	pr		connected to case	
ENVIRONMENTAL CHARACTERI	STICS			
Temperature Range Humidity		-40°F to 302°F Epoxy sealed	(-40°C to +150°C)	
Shock Limit	g pk		200	
Base Strain	equiv. g pk/µ stra	0.0002		
Magnetic Field Sensitivity	equiv. g rms/gaus	1.2E-5 (1.2)		
The area of Taranai and Committee it.	(/T)	0.04 (0.048)		
Thermal Transient Sensitivity	equiv.gpk/°F (/°	0.01 (0.018)	0.01 (0.018)	
PHYSICAL CHARACTERISTICS				
Weight	oz (grams)	3.5 (100)		
Case Material		Stainless Stee		
Mounting Piezoelectric Material		M5, torque 2 N PZT-5	I-m (18 lbf-in)	
Structure		Annular Shear		
Output Connector			side mounting	
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ACCESSORIES				
Included: Optional: Optional: 9002-120 Cable, Low Noise, Coaxial M5/10-32, 9001-120 Cable, Low Noise, Coaxial M5/M5			loise Coaxial M5/M5	
10ft (3.3 m) 10 ft (3.3 m)				
9504-1 M5/10-32 Mounting Stud	9504-4 M5/M5 Mounting Stud			
Calibration Certificate 9505-1 M5/10-32 Isolated Mounting Stud			tea Mounting Stua	

1. Low end response of the transducer is a function of its electronics.