



CRY434

1 Axis, 100 mV/G, IEPE Highsensitivity Accelerometer, Side 10-32UNF Connector

Features

Key Specifications

Sensitivity 100 mV/g

Frequency Response 0.5 Hz to 8 kHz (±1 dB)

Measuring Range ±50g pk

Applications

Universal measurements
High precision measurements
Industrial vibration measurements

Introduction

The CRY434 is a single-axis acceleration sensor with an 10-32 UNF(Microdot) output connector at the side, which is mounted to an object by a 10-32 UNF bolt. It can be used to measure small movements in laboratory and scientific research, and can also be used to monitor the vibration state of industrial equipment online.

CRY434 can be used with armored shielded cables to measure vibration parameters such as acceleration, velocity, and displacement under strong interference conditions such as industrial and electric power.

Highlights

Applicαtions of High-sensitivity Accelerometer

High-sensitivity accelerometers can detect small changes in acceleration, providing accurate and reliable acceleration data for the early small fault vibration monitoring of industrial equipment and laboratory scientific research.

Compatibility

The IEPE accelerometer is a PE charge accelerometer with an integrated preamplifier with an output signal in the form of a low-impedance voltage output that can be matched to a common coaxial cable.

IEPE is a universal constant current source power supply technology used on sensors. Each manufacturer has different names, such as ICP, CCP, etc.

Calibration

Each CRYSOUND accelerometer is calibrated at the factory using traceable calibration equipment. Calibration certificates are provided with each unit. CRYSOUND recommends recalibration at least once a year.

Quality & Warranty

All CRYSOUND accelerometers are made of stainless steel with good corrosion resistance and robustness, suitable for long-term storage.

CRYSOUND preamplifiers are supported by a 1-year warranty—offering one of the best service guarantee in the world.



Technical Specifications

Specifications		
Sensitivity	100 mV/g	
Frequency Response	0.5 Hz to 8 kHz (±1 dB)	
Measuring Range (Peak)	±50g pk	
Transverse Sensitivity	≤5%	
Amplitude Non-lineαrity	≤±1%	
Electrical		
Output Impedance	<100 Ω	
Excitation Voltage	18 VDC to 28 VDC	
Full Scale Output (Peak)	±5 V	
Constant Current	2 mA to 10 mA	
Noise	<50 uV	
Bias Voltage	9 V to 12 V	
Environmental		
Max Shock Protection	±3000 g	
Operating Temperature	-40 °C to +120 °C	
Physical		
Connector Type	Side 10-32UNF(Microdot)	
Mounting Threads	10-32UNF(Microdot)	
Sensing Structure	Shear Mode	
Case Materials	304 Stainless Steel	
Sensing Element	PZT-5	
Weight	13g	

Frequency Response

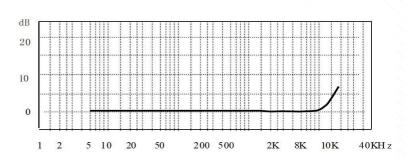


Fig.1 CRY434 Accelerometer Typical Frequency Response

Drawings(mm)[inch]

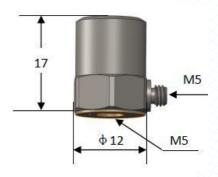


Fig.2 CRY434 Accelerometer Drawings

Dimensions

Height	17 mm(0.669")	
Diameter	12 mm(0.472")	

Ordering Information

Optional Access	sories
Cable	10-32UNF to BNC cable/ 2m
Bolt	M5 bolt

Related Products	
CRY431	1 Ax

CRY431	1 Axis, high-g, IEPE accelerometer 5 mV/g, top 10-32UNF connector
CRY433	1 Axis, high-sensitivity, IEPE accelerometer, 100 mV/g, top 10-32UNF connector
CRY441	1 Axis, high-g charge accelerometer, 5pC/g, miniature, side 10-32UNF connector
CRY446	Triaxial, high-g, IEPE accelerometer, 10 mV/g, miniature, side connector

