



CRY442

Triaxial, MIniature, IEPE Accelerometer, Side 4-Pin Connec-R

Features

Key Specifications

Sensitivity 100 mV/g Frequency Response 0.5Hz - 5I

0.5Hz - 5kHz (±1 dB)

Measuring Range ±50g pk

Applications

Universal measurements Industrial vibration measurements Measurements in confined spaces

Introduction

CRY442 is a triaxial acceleration sensor. The output mode is 1/4 - 28 (4 pins) on the side and it is installed on an object through an M5 bolt. It can be used - measure tiny motions in labora-ries and scientific research. It can also be used - moni-r the vibration status of industrial equipment online.

CRY442 can be used in conjunction with armored shielded cables for measuring parameters such as acceleration, velocity, and displacement under strong interference conditions such as in industry and power.

Highlights

Applications 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 moniring of industrial equipment and labora-ry 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 - 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 fac-ry 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 s-rage.

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



Technical Specifications

Dynamic Characteristics	
Sensitivity	100 mV/g
Frequency Response	0.5Hz - 5kHz (±1 dB)
Measuring Range (Peak)	±50g pk
Transverse Sensitivity	≤5%
Electrical Characteristics	
Output Impedance	<100 Ω
Excitation Voltage	18 VDC - 28 VDC
Full Scale Output (Peak)	±5 V
Constant Current	2 mA - 10mA
Noise	< 50 uV
Bias Voltage	9V - 13V
Environmental Character	istics
Max Shock Protection	±1000g
Operating Temperature	-40 °C − +120 °C
Physical Characteristics	
Connec-r Type	Side 1/4-28 4-pin
Threaded Interface	M5
Sensing Structure	Shear Mode
Case Materials	304 Stainless Steel
Sensing Element	PZT-5

Frequency Response

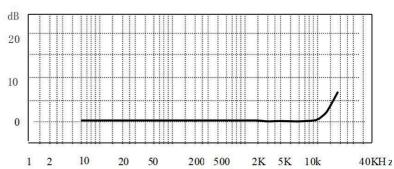


Fig.1 CRY442 Accelerometer Typical Frequency Response

Drawings(mm)[inch]

Related Products

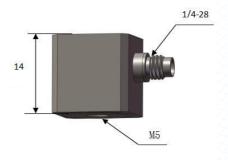


Fig.2 CRY442 Accelerometer Drawings

Ordering Information

Weight

Optional Accessories	
Cable	1/4-28(4pin) - BNC (3) cable/5m

18g

4	
CRY431	1 Axis, high-g, IEPE accelerometer 5 mV/g, -p M5 connec-r
CRY433	1 Axis, high-sensitivity, IEPE accelerometer, 100 mV/g, -p M5 connec-r
CRY437	1Axis, high-g, IEPE accelerometer, 10 mV/g, miniature, overall cable
CRY446	Triaxial, high-g, IEPE accelerometer, 10 mV/g, miniature, side connec-r

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