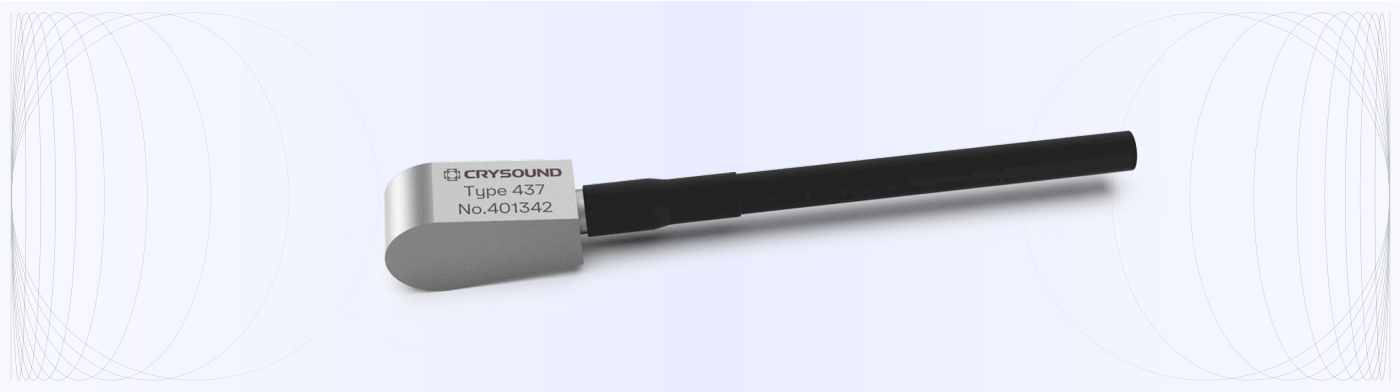

CRY437

Miniature, High-G, IEPE Accelerometer, Overall Cable

Features

- **Key Specifications**

Sensitivity	10 mV/g
Frequency Response	2Hz to 8 kHz (±1 dB)
Measuring Range	±500 g pk

- **Applications**

Universal measurements
Industrial vibration measurements
Measurements in confined spaces
Measurements on delicate structures

Introduction

CRY437 is a miniature uniaxial acceleration sensor. The output mode is an integrated connection on the side and it is installed on an object in a gel-like manner.

It can be used to measure tiny motions in laboratories and scientific research. It can also be used to monitor the vibration status of industrial equipment online. Its small size makes it an excellent choice for measurements in limited spaces and on delicate structures.

Highlights

- **Applications of High-G Accelerometer**

High-g accelerometers are used to measure high-amplitude vibration, such as in collision and impact testing, aircraft and car acceleration, ballistic testing, and more. They can capture these huge acceleration changes and provide reliable data support.

- **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

Dynamic Characteristics	
Sensitivity	10 mV/g
Frequency Response	2 Hz to 8 kHz (±1 dB)
Measuring Range (Peak)	±500 g pk
Transverse Sensitivity	≤5%
Amplitude Non-linearity	≤±1%
Electrical Characteristics	
Output Impedance	<100 Ω
Excitation Voltage	18 VDC to 28 VDC
Full Scale Output (Peak)	±5 V
Constant Current	2 mA to 10mA
Noise	< 100 uV
Bias Voltage	11 V- 13 V
Environmental Characteristics	
Max Shock Protection	±2000 g
Operating Temperature	-40 ℃ to +80 ℃
Physical Characteristics	
Connector Type	Overall cable (M5)
Mounting Bolt	Glue
Sensing Structure	Shear Mode
Case Materials	304 Stainless Steel
Sensing Element	PZT-5
Weight	2 g (Excluded Cable)

Frequency Response

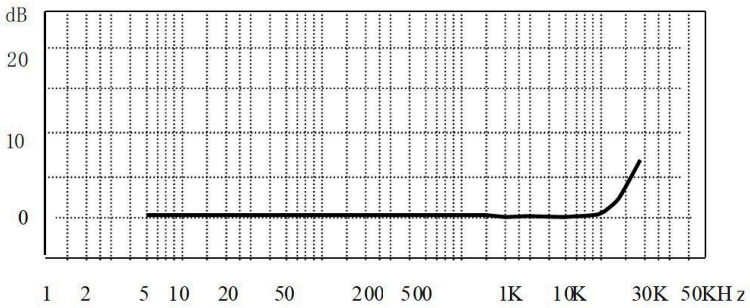

Fig.1 CRY437 Accelerometer Typical Frequency Response

Drawings(mm)[inch]

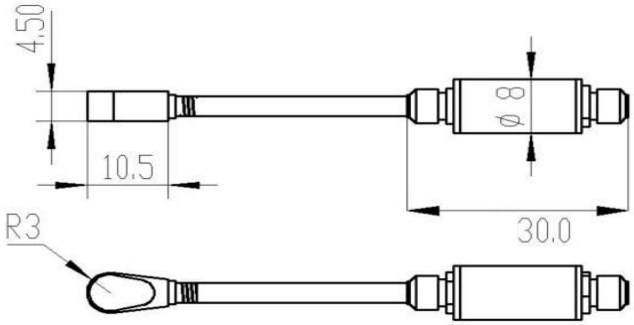

Fig.2 CRY437 Accelerometer Drawings

Related Products

Model of Accelerometer	Axis	Sensitivity	Frequency Range	Measurement Range(Peak)
CRY431 IEPE Accelerometer	Single-axis	5 mV/g	1 Hz - 12 kHz	±1000g pk
CRY441 Charge Accelerometer	Single-axis	5 pC/g	1 Hz - 10 kHz	±2400g pk
CRY445 IEPE Accelerometer	Triaxial	100 mV/g	0.5 Hz - 8 kHz	±80g pk