



CRY436

IEPE Accelerometer, High-sensitivity, Top 2-Pin Connector

Features

- **Key Specifications**

Sensitivity	100 mV/g
Frequency Response	1 Hz to 12 kHz (±10%) 0.5 Hz to 20 kHz(±3 dB)
Measuring Range	±50g pk

- **Applications**

High precision measurements
Industrial vibration measurements

Introduction

CRY436 is a uniaxial acceleration sensor with an output in the form of a 2-core connector conforming to MIL-C-5015 standard. It is often used for online monitoring of the vibration state of industrial equipment.

CRY436 can be equipped 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

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

- **Quality & Warranty**

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

CRY SOUND 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	1 Hz to 12kHz ($\pm 10\%$) 0.5Hz to 20kHz ($\pm 3\text{dB}$)

Measuring Range (Peak)	$\pm 50\text{g}$ pk
Transverse Sensitivity	$\leq 5\%$

Electrical Characteristics

Output Impedance	$< 100\ \Omega$
Excitation Voltage	18 VDC to 28 VDC
Full Scale Output (Peak)	$\pm 5\text{ V}$
Constant Current	2 mA to 10mA
Noise	$< 50\ \mu\text{V}$
Bias Voltage	$12 \pm 2\text{ V}$

Install Ground Insulation	$10^8\ \Omega$
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Environmental Characteristics

Max Shock Protection	$\pm 3000\text{ g}$
Operating Temperature	$-40\ ^\circ\text{C}$ to $+120\ ^\circ\text{C}$

Physical Characteristics

Connector Type	Top 5/8-24 (2-Pin)
Threaded Interface	1/4-28
Sensing Structure	Shear Mode
Case Materials	304 Stainless Steel
Sensing Element	PZT-5
Weight	48 g

Frequency Response

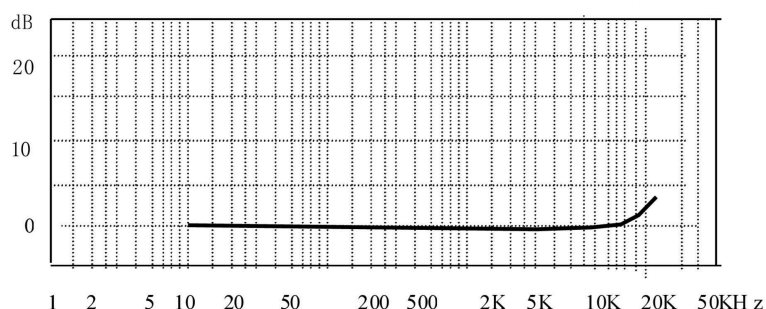


Fig.1 CRY436 Accelerometer Typical Frequency Response

Drawings(mm)[inch]

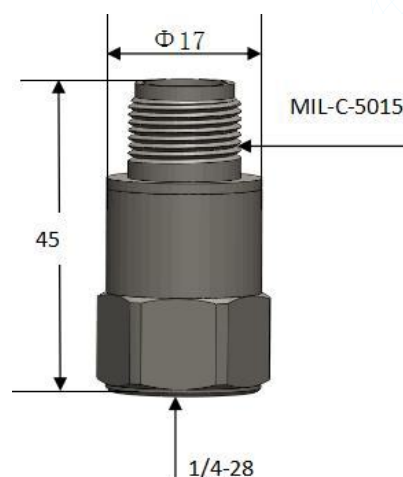


Fig.2 CRY436 Accelerometer Drawings

Dimensions

Height	45 mm (1.772")
Diameter	17 mm (0.669")

Ordering Information

Optional Accessories

Cable	MIL 2-pin connecting cable / 2m
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Related Products

CRY431	1 Axis, high-g, IEPE accelerometer 5 mV/g, top M5 connector
CRY441	1 Axis, high-g charge accelerometer, 5pC/ g, miniature, side M5 connector
CRY446	Triaxial, high-g, IEPE accelerometer, 10 mV/ g, miniature, side connector