



CRY445

Triaxial IEPE Accelerometer, , High-sensitivity, Side 4-Pin Connector

Features

Key Specifications

Sensitivity 100 mV/g

Frequency Response 1 Hz to 4 kHz (±1 dB)

Measuring Range ±80g pk

Applications

Industrial vibration measurements High sensitivity measurements

Introduction

CRY445 is a three-axis acceleration sensor. The output mode is M12*1 (4 pin). It is installed on an object through an M5 bolt and is often used for online monitoring of the vibration status of industrial equipment.

CRY445 can be used 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 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

Dynamic Characteristics			
Sensitivity	100 mV/g		
Frequency Response	1 Hz - 4 kHz (±1 dB) 0.5Hz - 8kHz (±3 dB)		
Measuring Range (Peak)	±80g 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)	±8V		
Constant Current	2 mA to 10mA		
Background Noise	< 200uV		
Bias Voltage	10V - 14V		
Install Ground Insulation	108Ω		
Environmental Character	istics		
Max Shock Protection	±1000 g		
Operating Temperature	-40 °C to +120 °C		
Physical Characteristics			
Connector Type	Side M12, 4-Pin		
Threaded Interface	M5		
Sensing Structure	Shear Mode		
Case Materials	304 Stainless Steel		
Level of Protection	IP65		
Weight	95g		

Drawings(mm)[inch]

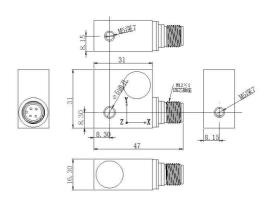


Fig.1 CRY445 Accelerometer Drawings

Ordering Information

Optional Accessories		Related Products	
Cable	M12 4-p plug shielded cable/5m	CRY431	1 Axis, high-g, IEPE accelerometer 5 mV/g, top M5 connector
		CRY437	1Axis, high-g, IEPE accelerometer, 10 mV/g, miniature, overall cable
		CRY446	Triaxial, high-g, IEPE accelerometer, 10 mV/g, miniature, side connector