

Yekan A230 Vibration Sensor

Piezoelectric Accelerometer (Isolated)

Datasheet

Rev. V1.1



Description

Yekan's piezoelectric accelerometer is engineered for precise and reliable vibration measurements in demanding industrial environments. Featuring integrated IEPE circuitry, it delivers low-noise performance and high immunity to external disturbances. The durable 2-pin MIL-C-5015 connection ensures secure and easy integration, making it ideal for various industrial monitoring applications requiring accuracy and stability.

Features:

- Sensitivity of 100 mV/g for precise vibration measurement.
- Wide Measurement Range: Capable of measuring vibrations in the range of ± 50 g.
- Integrated IEPE Circuitry: Built-in IEPE technology minimizes noise and ensures stable signal output.
- Robust Noise Immunity: High resistance to external disturbances for reliable data integrity.
- Durable 2-Pin MIL-C-5015 Connector: Secure and easy integration in industrial applications.

Ordering Information

A230 COMPACT MULTIPURPOSE ACCELEROMETER TOP EXIT 2PIN CONNECTOR, 100mV/g

A230-AA

A: Connection & Cable Type	
1A	2pin MIL-C-5015 Connector Without Integral Cable

Specifications

Sensitivity (20±5°C)	100 mV/g
Measurement Range (pk)	±50 g
Max Transverse Sensitivity	<5%
Frequency Response (±10%)	1 ~ 9,000 Hz
Frequency Response (±3dB)	0.4 ~ 12,000 Hz
Mounting Resonant Frequency	≥30 KHz
Amplitude linearity	≤1%
Operating Temperature Range	-40 ~ +120 °C
Shock Limit (pk)	3000 g
Noise (rms)	<50 µV
Output Impedance	<100 Ω
Operating Voltage (Constant Current Source)	18 ~ 28 VDC
Operating Current	2 ~ 10 mA
DC Bias Voltage	12±2 VDC
Case Isolation	≥10 ⁸ Ω
Mounting	1/4-28
Sensing Element	Piezoelectric Ceramics
Sensing Geometry	Shear
Case Material	304 Stainless Steel
Weight	~52 g
Connector	2pin MIL-C-5015



Copyright 2024 Yekan Company. All rights reserved.



Yekan Tajhiz company is acting in the field of supply, consulting and engineering services associated with vibration measurement and monitoring equipment and works as the middle east representative of Bently Nevada, Metrix and CTC brands.

Tehran, Iran
Phone: 021-88196217 or yekan-vibro.com/support