

Price quote for imported fiber optic vibration sensors

LoRa handheld portable base station



AI Overview

Fiber optic vibration sensors typically range from a few hundred to several thousand USD per unit, depending on type, precision, and application.

Pricing Overview

Single-Axis and Dual-Axis Fiber Optic Accelerometers: These sensors, used for monitoring generator stator endwindings or critical motors, generally cost \$500 to \$3,000 per sensor, depending on configuration, measurement range, and included electro-optical drivers for signal conversion (EVAII series).

Fiber Bragg Grating (FBG) Sensors: Commonly used in structural health monitoring, pipeline integrity, and seismic applications, FBG sensors can range from \$1,000 to \$5,000 per channel, with prices increasing for multiplexed or distributed systems.

Distributed Fiber Optic Vibration Sensors (DFOVS): These systems, which allow long-distance monitoring and multiple sensing points along a single fiber, are more expensive due to their complexity and high-precision capabilities. Market reports indicate that DFOVS solutions contribute to a global market valued at over USD 1.2 billion in 2024, with individual system costs often exceeding \$10,000 to \$50,000, depending on length, number of sensing points, and application requirements.

Factors Affecting Price

Sensor Type: Interferometric, Fabry-Perot, or FBG-based sensors have different manufacturing complexities and sensitivities, influencing cost.

Application Environment: Sensors designed for high-voltage, underwater, or hazardous environments are more expensive due to specialized materials and certifications.

Measurement Range and Precision: Higher sensitivity and broader frequency ranges increase the price.

Vendor and Volume: Bulk purchases or industrial suppliers like Mouser or Alibaba may offer lower per-unit prices, while custom or high-end systems from specialized manufacturers are more costly.

Purchasing Options

Online Marketplaces: Alibaba lists a variety of fiber optic...

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Fiber Optic Vibration Sensors Market

The global Fiber Optic Vibration Sensors Market was valued at approximately USD 2.18 billion in 2026 and is projected to reach nearly USD 5.50 billion by 2035, expanding at a CAGR of 10.8%.

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Fiber-Optic Sensors for Vibration and Strain Measuring

Fiber Bragg Grating (FBG) sensors provide absolute measurements, but require compensation for temperature effects. Multimode fiber sensors detect vibrations

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Fiber Optic Sensors - Mouser

Mouser offers inventory, pricing, & datasheets for Fiber Optic Sensors.

Fiber Optic Vibration Sensor

Discover fiber optic vibration sensors with 1550nm FBG technology & CE-certified reliability for precise monitoring in demanding environments.

Contact Us

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