Price quote for imported fiber optic temperature sensors

Overview

Fiber optic temperature sensorsHigh-quality fiber optic temperature sensors, suitable for industrial applications. Average price around $87, minimum order.

Key Takeaways

Fiber optic temperature sensors typically range from $500 to $2,000 per sensor, with complete multi-sensor systems costing $10,000 to $30,000 depending on technology and application. Price Ranges by Sensor TypeFluorescent Fiber Optic Sensors: These sensors measure temperature via fluorescence decay and are highly precise. Individual sensors generally cost $500 to $2,000, with custom or specialized models exceeding this range.

They are commonly used for localized temperature measurements in industrial and high-voltage applications. Fiber Bragg Grating (FBG) Sensors: FBG sensors detect temperature changes through wavelength shifts in fiber gratings.

Individual FB

G sensors also range from $500 to $2,000, while complete systems with multiple sensors and demodulation equipment can cost $10,000 to $30,000 depending on the number of sensors and system complexity. Distributed Temperature Sensing (DTS) Systems: DTS sensors provide continuous temperature profiles along the fiber using Raman or Brillouin scattering. These systems are high-end, with substantial initial investment, but they offer extensive coverage for long-distance monitoring, such as pipelines or power cables.

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Prices for DT

S systems are generally higher than FBG or fluorescent sensors due to the complexity of the interrogation units and installation requirements.

Factors Affecting Price

Accuracy: High-accuracy sensors (±0. 1°C) can cost 3–5 times more than standard accuracy sensors (±1. 0°C), especially in critical oil, gas, or power applications in GCC countries.

Temperature Range: Sensors designed for extreme temperatures (e.g., -270°C to +600°C) are significantly more expensive than standard industrial range sensors (-40°C to +150°C),. Environmental Ruggedization: Sensors with Teflon coatings, sapphire materials, or alloy protection for harsh or corrosive environments command premium prices. Response Time: Fast-response sensors (sub-second) are more costly than standard-response sensors (several seconds),.

System Components: Complete monitoring systems include multiple sensors, fiber leads, interrogation units, and integration costs, which can substantially increase total investment.

Regional Considerations

In regions like the Middle East, Africa, and Southeast Asia, prices may be influenced by local demand, environmental conditions, and application requirements. For example, high-accuracy sensors are preferred for transformer monitoring in Saudi Arabia and UAE, while multi-point FBG systems are common in data centers and geothermal installations in Southeast Asia. In summary, individual fiber optic temperature sensors typically cost $500–$2,000, while complete systems with multiple sensors and monitoring equipment can reach $10,000–$30,000 or more, depending on technology, accuracy, environmental requirements, and system complexity.

Article Content

Fiber optic temperature sensors

High-quality fiber optic temperature sensors, suitable for industrial applications. Average price around $87, minimum order of 1 unit. Available in large volumes, ideal for distributors and

Fiber Optic Temperature Sensor Price Analysis

The cost of fluorescent fiber optic temperature sensors typically ranges from $500 to $2,000 per sensor, depending on the factors mentioned above. Custom solutions and sensors with

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Fiber optic temperature sensor

Discover fiber optic temperature sensors with high-temperature resistance up to 350°C and CE certification. Ideal for industrial temperature measurement and distributed sensing applications.

How to Import Fiber Optic Temperature Sensors from China: 2025 ...

Complete guide to importing fluorescence fiber optic temperature measurement systems from Chinese manufacturers. Discover OEM/ODM solutions, bulk pricing, and custom configurations

Fiber optic temperature sensors-AliExpress

When selecting a fiber optic temperature sensor, it''s essential to consider factors such as measurement range, response time, compatibility with existing systems, and environmental resistance.

Fiber optic temperature sensor, Fiber optic temperature probe

Find your fiber optic temperature sensor easily amongst the 19 products from the leading brands (SAB, TEXYS, TEMPSENS, ...) on DirectIndustry, the industry specialist for your professional purchases.

China Fiber Optic Sensor, Fiber Optic Sensor Wholesale,

Most suppliers offer fiber optic sensor wholesale and bulk order pricing, especially for authorized distributors seeking cheap rates and OEM branding. Explore our top suppliers or request your

Fiber Optic Temperature Sensors

The fiber optic temperature sensor system consists of a fiber optic probe and a temperature converter. Our probes include our proprietary materials and processes that helps achieve the highest

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How Much Do Fiber Optic Temperature Sensors Cost? Complete Price

Fiber optic temperature sensors have revolutionized temperature monitoring across critical industrial applications with their exceptional accuracy, EMI immunity, and reliability in extreme

Fiber Optic Temperature Sensor Price Analysis

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As technology matures and production scales, the cost is expected to decrease, making these sensors more accessible. Conclusion The price of fiber optic temperature sensors varies

Top 10 Fiber Optic Temperature Sensor Manufacturers & Suppliers 2026

The information presented in this article regarding fiber optic temperature sensor manufacturers, technical specifications, pricing estimates, and application guidance is provided for

Fiber Optic Sensor Imports Under HS Code 90329000

Information and reports on Fiber Optic Sensor Imports Under HS Code 90329000 along with detailed shipment data, import price, export price, monthly trends, major exporting countries countries, major

Fiber Optic Temperature Sensors Market in the World | Report

The global market for fiber optic temperature sensors (FOTS) represents a critical and technologically advanced segment within the broader industrial sensor and instrumentation

Top 10 global manufacturers for fiber optic temperature measurement

Traditional PT100 temperature sensors are very common in the market and have a low price, but they also have many temperature measurement defects. Therefore, more and more

Fiber Optic Temperature Sensor

Fiber optic sensors transfer information to the fiber optic monitor via light that travels through the fiber optic cable. This is quite different compared to traditional sensors that use resistance/voltage to

Fiber Optic Sensors & Transducers its Types and Application

The Fiber Bragg Grating Sensor has a price point based on its channel configuration, amount of sensing points supported, temperature range and cable length. Tempsens have a competitive price offering

Fiber Optic Temperature Sensor Market Size, Share & Forecast

The fiber optic temperature sensor market represents a critical intersection of photonic technology, industrial instrumentation, and advanced sensing solutions, serving a broad spectrum of

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