Fiber optic temperature sensor probe price



Overview

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Key Takeaways

Fiber optic temperature sensors typically range from $100 to several thousand dollars per unit, depending on accuracy, technology, and application requirements.

Price Range Overview

The cost of fiber optic temperature sensors varies widely based on sensor type, accuracy, and environmental specifications. Basic point sensors for standard industrial applications can start around $100–$500 per unit, while high-accuracy sensors (±0. 1°C) or those designed for extreme temperatures (-270°C to +600°C) can cost $1,000–$5,000 or more per sensor.

Complete distributed temperature sensing systems, which monitor multiple points along a single fiber, can reach tens of thousands of dollars, reflecting the complexity and coverage area.

Factors Affecting Price

Accuracy: Higher precision sensors are significantly more expensive; for example, ±0. 1°C sensors may cost 3–5 times more than ±1. 0°C sensors.

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Temperature Range: Sensors capable of extreme temperatures or high ambient conditions require specialized materials, increasing costs. Environmental Protection: Harsh environments, such as oil refineries or outdoor installations, may require Teflon coatings, sapphire tubes, or alloy protection, which adds to the price. System Configuration: Single-point sensors are cheaper, while multi-point or continuous distributed sensing systems have higher initial costs but lower marginal cost per measurement point.

Purchasing Options

Industrial Suppliers: Companies like MKS Instruments and DirectIndustry offer specialized fiber optic temperature sensors for critical applications, with prices reflecting high accuracy and durability. Online Retailers: Platforms like Mouser Electronics and eBay provide a range of sensors, often with unit pricing visible and options for smaller quantities, suitable for prototyping or smaller-scale projects.

Summary

When budgeting for fiber optic temperature sensors, consider accuracy, temperature range, environmental conditions, and system type. While individual sensors can be relatively affordable, full systems for industrial monitoring can be a significant investment, justified by their reliability, EMI immunity, and suitability for extreme conditions.

Article Content

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How Much Do Fiber Optic Temperature Sensors Cost? Complete

For decision-makers evaluating these advanced monitoring solutions, understanding the pricing factors is essential for making cost-effective investments. This comprehensive guide analyzes

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How Much Do Fiber Optic Temperature Sensors Cost?

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Fiber optic temperature sensor prices range from $300-$3,000 per point depending on accuracy, temperature range, and environmental

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MKS fiber optic temperature sensor probes are designed to offer industry leading accuracy, repeatability, and reliability for a wide range of applications. The probe is immune to RF and enables customers to

Fiber Optic Sensors – Mouser

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

Fiber Optic Temperature Probes

Electromagnetic radiation immune, high voltage, RF, magnetic field compatible fibre optic temperature probes.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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