

High Temperature Resistant Fiber Optic Sensor Factory Price



Article Overview

High-temperature fiber optic sensors typically cost between \$500 and \$2,000 per sensor, with complete systems ranging from \$10,000 to \$50,000 depending on type and specifications.

Price Ranges by Sensor Type

- Individual FBG (Fiber Bragg Grating) sensors: \$500 to \$2,000 per sensor, depending on accuracy, number of gratings, and environmental protection .
- Fluorescent fiber optic sensors: \$500 to \$2,000 per sensor, generally used for localized measurements .
- Distributed fiber optic temperature sensors: \$10,000 to \$50,000 or more for complete systems, offering continuous temperature monitoring along the fiber length .

Factors Affecting Cost

- Temperature Range: Sensors designed for extreme temperatures (up to 350°C or higher) cost more than standard industrial sensors (-40°C to +150°C) due to specialized materials like sapphire, Teflon coatings, or stainless steel .
- Accuracy and Stability: High-accuracy sensors ($\pm 0.1^{\circ}\text{C}$) can cost 3-5 times more than standard accuracy sensors ($\pm 1.0^{\circ}\text{C}$) .
- Response Time: Fast-response sensors (sub-second) command premium prices compared to slower sensors suitable for long-term monitoring .
- Size and Packaging: Miniature sensors (

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A fiber optic temperature sensor is a temperature measurement device that uses optical fibers as the sensing medium. Unlike

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Abstract High-temperature measurements above 1000 °C are critical in harsh environments such as aerospace, metallurgy, fossil

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