Southeast Asian fiber optic temperature measurement cable manufacturer



Overview

Fiber Optics Temperature Measurement The OS4000 series high speed industrial fiber optic infrared transmitters measure temperature ranges from 200 to 1600º.

Key Takeaways

Yokogawa SE Asia is a leading manufacturer of fiber optic temperature measurement cables and distributed temperature sensing systems in Southeast Asia.

Yokogawa SE Asia

Yokogawa S

E Asia offers the DTSX series of fiber optic temperature sensors, which are designed for distributed temperature sensing (DTS) across long distances and wide areas. These systems use fiber optic cables to detect temperature changes in real time, enabling predictive maintenance and early detection of equipment abnormalities in factories, production facilities, and critical infrastructure.

The DTS

X sensors can monitor areas that are difficult to access with conventional fixed-point sensors or thermal cameras, providing continuous, high-resolution temperature data. Key features include: Distributed sensing along the entire length of the fiber optic cable, allowing for line monitoring rather than point measurements. High environmental resistance, suitable for harsh industrial conditions, with low power consumption and minimal dependence on ambient temperature.

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Predictive maintenance support, reducing labor-intensive patrols and minimizing the risk of undetected equipment failures. Flexible deployment, as the fiber optic cable can follow the shape of the object being monitored, covering long distances efficiently.

Other Notable Global Manufacturers

While not Southeast Asia-based, several global companies provide advanced fiber optic temperature measurement solutions that may be available through regional distributors: OSENSA Innovations: Offers fiber optic temperature sensing and partial discharge monitoring for industrial applications, including switchgear and data centers. Luna Innovations: Provides high-definition distributed temperature sensing with sub-millimeter spatial resolution and long-range monitoring capabilities.

A

P Sensing: Manufactures fiber optic sensor cables for temperature, strain, and acoustic monitoring, including metal-free and armored options for harsh environments.

COME

M: Produces GaAs-based fiber optic temperature sensors for high-voltage and electromagnetic interference-prone environments.

Summary

For Southeast Asia, Yokogawa SE Asia is the primary manufacturer offering fiber optic temperature measurement cables and DTS systems suitable for industrial and infrastructure applications.

Their DTS

X series provides long-distance, high-resolution, and predictive monitoring capabilities, making it ideal for factories, plants, and critical facilities. Global manufacturers like OSENSA, Luna, AP Sensing, and COMEM also offer advanced fiber optic temperature solutions that may be sourced through regional distributors.

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Article Content

Fiber Optics Temperature Measurement

The OS4000 series high speed industrial fiber optic infrared transmitters measure temperature ranges from 200 to 1600ºC (392 to 2912°F) using three standard optical fields of view and three standard

Fiber optic temperature sensor-temperature monitoring

A one-stop shop for customised temperature monitoring systems, with a wide selection of transformer temperature controllers and fluorescent fibre optic

Taihan Fiberoptics

As Taihan Fiberoptics has completed the vertical integration for preforms necessary for optical fiber manufacturing to optical cables, it is the Korea''s only manufacturer of preforms and the largest

The best distributed fiber optic cable temperature monitoring system ...

The temperature monitoring and over temperature alarm of cables in cable trays and cable trenches can be carried out using FJINNO''s distributed fiber optic temperature measurement system.

Fiber Optic Sensor Cables for Advanced Monitoring | AP Sensing

AP Sensing''s fiber optic sensor cables enable real-time, precise monitoring of temperature, strain & acoustics in harsh environments with minimal maintenance.

Factory Direct Fiber-Optic Distributed Temperature Sensing (DTS)

Distributed optical fiber temperature sensing products use OTDR technology for temperature monitoring and positioning. It is a real-time, online, continuous temperature measurement system.

COMEM Group

By choosing our solution, you gain accurate temperature monitoring that supports optimal operation, enhanced reliability, and superior protection of your most

Fiber Optic Temperature Sensing and Measurement

Measure temperature with fiber optic sensors for high-resolution distributed and multipoint monitoring in batteries, processes, and harsh environments.

DTSX3000 Distributed Temperature Sensor | Yokogawa India

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DTSX measures temperature distribution over the length of an optical fiber cable using the fiber itself as the sensing element and it is ideal for temperature monitoring over long distances and wide areas.

Southeast Asia

Yuyao Jera Line, a leading global manufacturer of cable infrastructure solutions, has earned a strong reputation for delivering reliable fiber optic cable products and comprehensive solutions to meet

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Fiber Optical Cable Market Report 2026

The Fiber Optical Cable Market, valued at USD 89.16B in 2026, is projected to reach USD 115.79B by 2030, growing at a 6.8% CAGR.

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Fiber Optic Temperature Monitoring System | Sensors

Beyond point-type temperature measurement, INNO''s distributed fiber optic sensing systems extend monitoring capabilities to large-scale linear infrastructure, enabling continuous

Top 10 Fiber Optic Temperature Sensor Manufacturers & Suppliers 2026

Global fiber optic temperature sensor market demonstrates robust growth in 2026 across power systems, medical devices, and electric vehicle sectors Comprehensive comparison of top 10

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