

Global Strain and Temperature Sensing (DTSS) Systems Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Strain and Temperature Sensing (DTSS) Systems market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

Strain and Temperature Sensing (DTSS) Systems are sophisticated sensor systems using Brillouin scattering in optical fibers to measure changes in both temperature and strain along the length of an optical fiber. By wrapping or embedding a fiber inside a structure — such as an oil pipeline or dam — one can detect when the structure is being strained or heated/cooled, and correct the problem before failure occurs.

Strain and Temperature Sensing (DTSS) Systems market driver as below?

Structural Health Monitoring: DTSS systems are used to monitor the health and integrity of structures such as bridges, pipelines, dams, and buildings. The ability to detect temperature changes and strain variations along these structures helps prevent failures and ensure safety.

Energy Infrastructure: In the energy sector, DTSS systems are deployed to monitor the condition of power cables, transmission lines, and other critical components. This enhances the reliability of energy transmission and distribution.

Oil and Gas Industry: DTSS systems provide real-time monitoring of pipelines, wellbores, and equipment in the oil and gas industry. This aids in early detection of leaks, faults, and stress conditions, contributing to operational safety and efficiency.

Environmental Monitoring: DTSS systems are utilized in environmental applications to monitor changes in temperature and strain in various settings, including oceans, rivers, and glaciers. This data aids in understanding environmental changes and trends.

Transportation: Monitoring temperature and strain in railways, roads, and transportation infrastructure helps optimize maintenance schedules, enhance safety, and extend the lifespan of assets.

Civil Engineering Projects: DTSS systems are integral to the planning, construction, and monitoring of civil engineering projects. Real-time data on temperature and strain informs decision-making and helps prevent structural issues.

Seismic Monitoring: DTSS systems are capable of detecting minute changes in strain caused by seismic activity, contributing to earthquake detection and understanding ground movements.

Aerospace and Aviation: DTSS systems are used to monitor the structural health of aircraft, spacecraft, and aerospace components, ensuring safety and reliability in aviation applications.

Research and Development: Researchers and scientists use DTSS systems to gather data for studies related to materials, geophysics, and various scientific disciplines.

Smart Cities and Infrastructure: As cities become smarter and more connected, DTSS systems play a role in creating intelligent infrastructure that can respond to changes and optimize resource utilization.

Renewable Energy: In wind and solar energy applications, DTSS systems monitor the structural health of wind turbines, solar panels, and associated infrastructure.

Disaster Management: Early detection of changes in temperature and strain can aid in disaster management, allowing for timely response to potential risks.

Advancements in Fiber Optics: Technological advancements in fiber optics have improved the accuracy, sensitivity, and versatility of DTSS systems, expanding their applications.

Regulatory Compliance: Industries such as oil and gas, aerospace, and transportation

often have regulatory requirements for structural health monitoring, driving the adoption of DTSS systems.

Data-Driven Decision-Making: DTSS systems provide valuable data that can be analyzed to make informed decisions about maintenance, repairs, and overall operational strategies.

This report is a detailed and comprehensive analysis for global Strain and Temperature Sensing (DTSS) Systems market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Strain and Temperature Sensing (DTSS) Systems market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Strain and Temperature Sensing (DTSS) Systems market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Strain and Temperature Sensing (DTSS) Systems market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Strain and Temperature Sensing (DTSS) Systems market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Strain and Temperature Sensing (DTSS) Systems
- To forecast future growth in each product and end-use market
- To forecast future factors affecting the marketplace

This report profiles key players in the global Strain and Temperature Sensing (DTSS) Systems market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Luna, VIAVI Solutions, Silixa, HAWK, FEBUS Optics, OZ Optics, SENSURON, FiberStrike, Infra Sensor Solutions, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Strain and Temperature Sensing (DTSS) Systems market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Single Mode Fiber-Based DTSS

Multimode Fiber-Based DTSS

Market segment by Application

Oil & Gas

Power & Utilities

Transport

Others

Major players covered

Luna

VIAVI Solutions

Silixa

HAWK

FEBUS Optics

OZ Optics

SENSURON

FiberStrike

Infra Sensor Solutions

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Strain and Temperature Sensing (DTSS) Systems product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Strain and Temperature Sensing (DTSS) Systems, with price, sales quantity, revenue, and global market share of Strain and Temperature Sensing (DTSS) Systems from 2020 to 2025.

Chapter 3, the Strain and Temperature Sensing (DTSS) Systems competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Strain and Temperature Sensing (DTSS) Systems breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Strain and Temperature Sensing (DTSS) Systems market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Strain and Temperature Sensing (DTSS) Systems.

Chapter 14 and 15, to describe Strain and Temperature Sensing (DTSS) Systems sales channel, distributors, customers, research findings and conclusion.

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