

Global Distributed Temperature Sensing (DTS) 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 Distributed Temperature Sensing (DTS) market size was valued at US\$ 115 million in 2024 and is forecast to a readjusted size of USD 146 million by 2031 with a CAGR of 3.5% during review period.

Distributed temperature sensing systems (DTS) are fiber optic based optoelectronic instruments which measure temperature along the length of the fiber optic sensing cable. The unique feature of a distributed temperature sensing system is that it provides a continuous (or distributed) temperature profile along the length of the sensing cable and not at discrete sensing points which must be pre-determined.

The Distributed Temperature Sensing (DTS) market covers Multi-Mode, Single-Mode. The typical players include LIOS, Halliburton, Yokogawa Electric, AP Sensing, etc.

Global distributed temperature sensing (DTS) main manufacturers include LIOS, Halliburton, Yokogawa Electric, AP Sensing and Bandweaver Technologies, totally accounting for about 48% of the market. Europe is the largest market of distributed temperature sensing, holding a share about 40%. As for the types of products, it can be divided into multi-mode and single-mode. The most common type is multi-mode, with a share over 80%. As for the applications of products, it is widely used in power and utility, oil and gas, petrochemical, infrastructure and others. The most common application is in power and utility, with a share about 30%.

This report is a detailed and comprehensive analysis for global Distributed Temperature Sensing (DTS) 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 Distributed Temperature Sensing (DTS) market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

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

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

Global Distributed Temperature Sensing (DTS) market shares of main players, shipments in revenue (\$ Million), sales quantity (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 Distributed Temperature Sensing (DTS)
- 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 Distributed Temperature Sensing (DTS) 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 LIOS, Halliburton, Yokogawa Electric, AP Sensing, Bandweaver Technologies, Silixa, Beijing Aerospace, Sensornet, Hunan Guangsheng, FEBUS OPTICS, etc.

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

Market Segmentation

Distributed Temperature Sensing (DTS) 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

Multi-Mode DTS

Single-Mode DTS

Market segment by Application

Power and Utility

Oil and Gas

Petrochemical

Infrastructure

Others

Major players covered

LIOS

Halliburton

Yokogawa Electric

AP Sensing

Bandweaver Technologies

Silixa

Beijing Aerospace

Sensornet

Hunan Guangsheng

FEBUS OPTICS

OZ Optics

Omnisens

Shanghai Huawei Technology

Yunuo Technology

Optromix

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 Distributed Temperature Sensing (DTS) product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Distributed Temperature Sensing (DTS) 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 Distributed Temperature Sensing (DTS) 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 Distributed Temperature Sensing (DTS).

Chapter 14 and 15, to describe Distributed Temperature Sensing (DTS) sales channel, distributors, customers, research findings and conclusion.

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