

# North America Distributed Temperature Sensing Market (2019-2025)

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## Abstracts

The North America Distributed Temperature Sensing Market would witness market growth of 9.42% CAGR during the forecast period (2019-2025).

Distributed temperature sensing (DTS) is a technology of real-time temperature measurement that provides continuous monitoring of all important measurement points for the entire length of the cable. For the oil & gas industry, a DTS system was developed primarily to help reservoir engineers refine the monitoring techniques. The growth of the decentralized temperature sensing industry is due to the security-related supporting government policies. In addition, high demand from the oil & gas industry, combined with high reliability and wide coverage of DTS systems, is anticipated to significantly boost market growth in distributed temperature sensing. However, the complex process of detection of flaws and troubleshooting hinders market growth. Increasing investment in smart grid technologies and the power industry is expected to provide new market growth opportunities.

Currently, workers' and manufacturing plants' safety issues have become immensely important, and in recent years the DTS market has been driven by increased rules and regulations relating to safety standards. DTS provides constant temperature and pressure measurements that can be used to detect leakage and fire to prevent any accidents. In addition, DTS systems have become more robust with real-time measurements, and organizations rely on them for precise and accurate information. Brownfield operations have grown throughout the world where older facilities and sites are being used to develop new structures. DTS improves brownfield operations with the help of real-time monitoring. Monitoring techniques are highly useful in tough working conditions like negative temperatures, extreme high temperatures in desert areas or sites that are not entirely safe for workers such as underground and mid-sea.

Based on Operating Principle, the market is segmented into Optical Frequency Domain Reflectometry and Optical Time Domain Reflectometry. Based on Fiber Type, the market is segmented into Multi-Mode Fiber and Single-Mode Fiber. Based on Application, the market is segmented into Oil & Gas, Power & Utility, Safety & Security, Industrial and Civil Engineering. Based on countries, the market is segmented into U.S., Mexico, Canada, and Rest of North America.

The market research report covers the analysis of key stake holders of the market. Key companies profiled in the report include Yokogawa Electric Corporation, Halliburton Company, AP Sensing GmbH, Schlumberger N.V., NKT A/S (NKT Photonics A/S), The Furukawa Electric Company (OFS Fitel LLC), Bandweaver Technologies, Optromix, Sensornet Limited and Silixa Ltd.

#### Scope of the Study

#### Market Segmentation:

##### By Operating Principle

Optical Frequency Domain Reflectometry

Optical Time Domain Reflectometry

##### By Fiber Type

Multi-Mode Fiber

Single-Mode Fiber

##### By Application

Oil & Gas

Power & Utility

Safety & Security

Industrial

Civil Engineering

### By Country

US

Canada

Mexico

Rest of North America

### Companies Profiled

Yokogawa Electric Corporation

Halliburton Company

AP Sensing GmbH

Schlumberger N.V.

NKT A/S (NKT Photonics A/S)

The Furukawa Electric Company (OFS Fitel LLC)

Bandweaver Technologies

Optromix

Sensornet Limited

Silixa Ltd.

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## Contents

### **CHAPTER 1. MARKET SCOPE & METHODOLOGY**

- 1.1 Market Definition
- 1.2 Objectives
- 1.3 Market Scope
- 1.4 Segmentation
  - 1.4.1 North America Distributed Temperature Sensing Market, by Operating Principle
  - 1.4.2 North America Distributed Temperature Sensing Market, by Fiber Type
  - 1.4.3 North America Distributed Temperature Sensing Market, by Application
  - 1.4.4 North America Distributed Temperature Sensing Market, by Country
- 1.5 Methodology for the research

### **CHAPTER 2. MARKET OVERVIEW**

- 2.1 Introduction
  - 2.1.1 Overview
  - 2.1.2 Executive Summary
  - 2.1.3 Market Composition and Scenario
- 2.2 Key Factors Impacting the Market
  - 2.2.1 Market Drivers
  - 2.2.2 Market Restraints

### **CHAPTER 3. MARKET DEVELOPMENTS**

- 3.1 Recent Strategic Developments
- 3.2 Top Winning Strategies
  - 3.2.1 Key Leading Strategies: Percentage Distribution (2015-2019)

### **CHAPTER 4. NORTH AMERICA DISTRIBUTED TEMPERATURE SENSING MARKET BY OPERATING PRINCIPLE**

- 4.1 North America Optical Frequency Domain Reflectometry Market by Country
- 4.2 North America Distributed Temperature Sensing Optical Time Domain Reflectometry Market by Country

### **CHAPTER 5. NORTH AMERICA DISTRIBUTED TEMPERATURE SENSING MARKET BY FIBER TYPE**

5.1 North America Multi-Mode Fiber Distributed Temperature Sensing Market by Country

5.2 North America Single-Mode Fiber Distributed Temperature Sensing Market by Country

## **CHAPTER 6. NORTH AMERICA DISTRIBUTED TEMPERATURE SENSING MARKET BY APPLICATION**

6.1 North America Oil & Gas Distributed Temperature Sensing Market by Country

6.2 North America Power & Utility Distributed Temperature Sensing Market by Country

6.3 North America Safety & Security Distributed Temperature Sensing Market by Country

6.4 North America Industrial Distributed Temperature Sensing Market by Country

6.5 North America Civil Engineering Distributed Temperature Sensing Market by Country

## **CHAPTER 7. NORTH AMERICA DISTRIBUTED TEMPERATURE SENSING MARKET BY COUNTRY**

7.1 US Distributed Temperature Sensing Market

7.1.1 US Distributed Temperature Sensing Market by Operating Principle

7.1.2 US Distributed Temperature Sensing Market by Fiber Type

7.1.3 US Distributed Temperature Sensing Market by Application

7.2 Canada Distributed Temperature Sensing Market

7.2.1 Canada Distributed Temperature Sensing Market by Operating Principle

7.2.2 Canada Distributed Temperature Sensing Market by Fiber Type

7.2.3 Canada Distributed Temperature Sensing Market by Application

7.3 Mexico Distributed Temperature Sensing Market

7.3.1 Mexico Distributed Temperature Sensing Market by Operating Principle

7.3.2 Mexico Distributed Temperature Sensing Market by Fiber Type

7.3.3 Mexico Distributed Temperature Sensing Market by Application

7.4 Rest of North America Distributed Temperature Sensing Market

7.4.1 Rest of North America Distributed Temperature Sensing Market by Operating Principle

7.4.2 Rest of North America Distributed Temperature Sensing Market by Fiber Type

7.4.3 Rest of North America Distributed Temperature Sensing Market by Application

## **CHAPTER 8. COMPANY PROFILES**

- 8.1 Yokogawa Electric Corporation
  - 8.1.1 Company Overview
  - 8.1.1 Financial Analysis
  - 8.1.2 Segmental and Regional Analysis
  - 8.1.3 Research & Development Expense
  - 8.1.4 Recent strategies and developments:
    - 8.1.4.1 Product Launches:
- 8.2 Halliburton Company
  - 8.2.1 Company Overview
  - 8.2.2 Financial Analysis
  - 8.2.3 Segmental and Regional Analysis
  - 8.2.4 Research & Development Expense
- 8.3 AP Sensing GmbH
  - 8.3.1 Company Overview
  - 8.3.2 Recent strategies and developments:
    - 8.3.2.1 Partnerships, Collaborations, and Agreements:
    - 8.3.2.2 Product Launches:
- 8.4 Schlumberger N.V.
  - 8.4.1 Company Overview
  - 8.4.2 Financial Analysis
  - 8.4.3 Segmental and Regional Analysis
  - 8.4.4 Regional analysis
  - 8.4.5 Research & Development Expense
- 8.5 NKT A/S (NKT Photonics A/S)
  - 8.5.1 Company Overview
  - 8.5.2 Financial Analysis
  - 8.5.3 Segmental and Regional Analysis
  - 8.5.4 Research & Development Expense
  - 8.5.5 Recent strategies and developments:
    - 8.5.5.1 Geographical Expansions:
- 8.6 The Furukawa Electric Company (OFS Fitel LLC)
  - 8.6.1 Company Overview
  - 8.6.2 Financial Analysis
  - 8.6.3 Segmental and Regional Analysis
  - 8.6.4 Research & Development Expenses
  - 8.6.5 Recent strategies and developments:
    - 8.6.5.1 Geographical Expansions:
- 8.7 Bandweaver Technologies Ltd.

8.7.1 Company Overview

8.7.2 Recent strategies and developments:

8.7.2.1 Geographical Expansions:

8.8 Optromix, Inc.

8.8.1 Company Overview

8.9 Sensornet Limited (Nova Metrix LLC)

8.9.1 Company Overview

8.1 Silixa Ltd.

8.10.1 Company Overview



## List Of Tables

### LIST OF TABLES

TABLE 1 NORTH AMERICA DISTRIBUTED TEMPERATURE SENSING MARKET, 2015 - 2018, USD MILLION

TABLE 2 NORTH AMERICA DISTRIBUTED TEMPERATURE SENSING MARKET, 2019 - 2025, USD MILLION

TABLE 3 NORTH AMERICA DISTRIBUTED TEMPERATURE SENSING MARKET BY OPERATING PRINCIPLE, 2015 - 2018, USD MILLION

TABLE 4 NORTH AMERICA DISTRIBUTED TEMPERATURE SENSING MARKET BY OPERATING PRINCIPLE, 2019 - 2025, USD MILLION

TABLE 5 NORTH AMERICA OPTICAL FREQUENCY DOMAIN REFLECTOMETRY MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 6 NORTH AMERICA OPTICAL FREQUENCY DOMAIN REFLECTOMETRY MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 7 NORTH AMERICA DISTRIBUTED TEMPERATURE SENSING OPTICAL TIME DOMAIN REFLECTOMETRY MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 8 NORTH AMERICA DISTRIBUTED TEMPERATURE SENSING OPTICAL TIME DOMAIN REFLECTOMETRY MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 9 NORTH AMERICA DISTRIBUTED TEMPERATURE SENSING MARKET BY FIBER TYPE, 2015 - 2018, USD MILLION

TABLE 10 NORTH AMERICA DISTRIBUTED TEMPERATURE SENSING MARKET BY FIBER TYPE, 2019 - 2025, USD MILLION

TABLE 11 NORTH AMERICA MULTI-MODE FIBER DISTRIBUTED TEMPERATURE SENSING MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 12 NORTH AMERICA MULTI-MODE FIBER DISTRIBUTED TEMPERATURE SENSING MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 13 NORTH AMERICA SINGLE-MODE FIBER DISTRIBUTED TEMPERATURE SENSING MARKET BY COUNTRY, 2015 - 2018, USD MILLION

TABLE 14 NORTH AMERICA SINGLE-MODE FIBER DISTRIBUTED TEMPERATURE SENSING MARKET BY COUNTRY, 2019 - 2025, USD MILLION

TABLE 15 NORTH AMERICA DISTRIBUTED TEMPERATURE SENSING MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 16 NORTH AMERICA DISTRIBUTED TEMPERATURE SENSING MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 17 NORTH AMERICA OIL & GAS DISTRIBUTED TEMPERATURE SENSING

MARKET BY COUNTRY, 2015 - 2018, USD MILLION  
TABLE 18 NORTH AMERICA OIL & GAS DISTRIBUTED TEMPERATURE SENSING  
MARKET BY COUNTRY, 2019 - 2025, USD MILLION  
TABLE 19 NORTH AMERICA POWER & UTILITY DISTRIBUTED TEMPERATURE  
SENSING MARKET BY COUNTRY, 2015 - 2018, USD MILLION  
TABLE 20 NORTH AMERICA POWER & UTILITY DISTRIBUTED TEMPERATURE  
SENSING MARKET BY COUNTRY, 2019 - 2025, USD MILLION  
TABLE 21 NORTH AMERICA SAFETY & SECURITY DISTRIBUTED TEMPERATURE  
SENSING MARKET BY COUNTRY, 2015 - 2018, USD MILLION  
TABLE 22 NORTH AMERICA SAFETY & SECURITY DISTRIBUTED TEMPERATURE  
SENSING MARKET BY COUNTRY, 2019 - 2025, USD MILLION  
TABLE 23 NORTH AMERICA INDUSTRIAL DISTRIBUTED TEMPERATURE  
SENSING MARKET BY COUNTRY, 2015 - 2018, USD MILLION  
TABLE 24 NORTH AMERICA INDUSTRIAL DISTRIBUTED TEMPERATURE  
SENSING MARKET BY COUNTRY, 2019 - 2025, USD MILLION  
TABLE 25 NORTH AMERICA CIVIL ENGINEERING DISTRIBUTED TEMPERATURE  
SENSING MARKET BY COUNTRY, 2015 - 2018, USD MILLION  
TABLE 26 NORTH AMERICA CIVIL ENGINEERING DISTRIBUTED TEMPERATURE  
SENSING MARKET BY COUNTRY, 2019 - 2025, USD MILLION  
TABLE 27 NORTH AMERICA DISTRIBUTED TEMPERATURE SENSING MARKET BY  
COUNTRY, 2015 - 2018, USD MILLION  
TABLE 28 NORTH AMERICA DISTRIBUTED TEMPERATURE SENSING MARKET BY  
COUNTRY, 2019 - 2025, USD MILLION  
TABLE 29 US DISTRIBUTED TEMPERATURE SENSING MARKET, 2015 - 2018, USD  
MILLION  
TABLE 30 US DISTRIBUTED TEMPERATURE SENSING MARKET, 2019 - 2025, USD  
MILLION  
TABLE 31 US DISTRIBUTED TEMPERATURE SENSING MARKET BY OPERATING  
PRINCIPLE, 2015 - 2018, USD MILLION  
TABLE 32 US DISTRIBUTED TEMPERATURE SENSING MARKET BY OPERATING  
PRINCIPLE, 2019 - 2025, USD MILLION  
TABLE 33 US DISTRIBUTED TEMPERATURE SENSING MARKET BY FIBER TYPE,  
2015 - 2018, USD MILLION  
TABLE 34 US DISTRIBUTED TEMPERATURE SENSING MARKET BY FIBER TYPE,  
2019 - 2025, USD MILLION  
TABLE 35 US DISTRIBUTED TEMPERATURE SENSING MARKET BY  
APPLICATION, 2015 - 2018, USD MILLION  
TABLE 36 US DISTRIBUTED TEMPERATURE SENSING MARKET BY  
APPLICATION, 2019 - 2025, USD MILLION

TABLE 37 CANADA DISTRIBUTED TEMPERATURE SENSING MARKET, 2015 - 2018, USD MILLION

TABLE 38 CANADA DISTRIBUTED TEMPERATURE SENSING MARKET, 2019 - 2025, USD MILLION

TABLE 39 CANADA DISTRIBUTED TEMPERATURE SENSING MARKET BY OPERATING PRINCIPLE, 2015 - 2018, USD MILLION

TABLE 40 CANADA DISTRIBUTED TEMPERATURE SENSING MARKET BY OPERATING PRINCIPLE, 2019 - 2025, USD MILLION

TABLE 41 CANADA DISTRIBUTED TEMPERATURE SENSING MARKET BY FIBER TYPE, 2015 - 2018, USD MILLION

TABLE 42 CANADA DISTRIBUTED TEMPERATURE SENSING MARKET BY FIBER TYPE, 2019 - 2025, USD MILLION

TABLE 43 CANADA DISTRIBUTED TEMPERATURE SENSING MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 44 CANADA DISTRIBUTED TEMPERATURE SENSING MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 45 MEXICO DISTRIBUTED TEMPERATURE SENSING MARKET, 2015 - 2018, USD MILLION

TABLE 46 MEXICO DISTRIBUTED TEMPERATURE SENSING MARKET, 2019 - 2025, USD MILLION

TABLE 47 MEXICO DISTRIBUTED TEMPERATURE SENSING MARKET BY OPERATING PRINCIPLE, 2015 - 2018, USD MILLION

TABLE 48 MEXICO DISTRIBUTED TEMPERATURE SENSING MARKET BY OPERATING PRINCIPLE, 2019 - 2025, USD MILLION

TABLE 49 MEXICO DISTRIBUTED TEMPERATURE SENSING MARKET BY FIBER TYPE, 2015 - 2018, USD MILLION

TABLE 50 MEXICO DISTRIBUTED TEMPERATURE SENSING MARKET BY FIBER TYPE, 2019 - 2025, USD MILLION

TABLE 51 MEXICO DISTRIBUTED TEMPERATURE SENSING MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 52 MEXICO DISTRIBUTED TEMPERATURE SENSING MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 53 REST OF NORTH AMERICA DISTRIBUTED TEMPERATURE SENSING MARKET, 2015 - 2018, USD MILLION

TABLE 54 REST OF NORTH AMERICA DISTRIBUTED TEMPERATURE SENSING MARKET, 2019 - 2025, USD MILLION

TABLE 55 REST OF NORTH AMERICA DISTRIBUTED TEMPERATURE SENSING MARKET BY OPERATING PRINCIPLE, 2015 - 2018, USD MILLION

TABLE 56 REST OF NORTH AMERICA DISTRIBUTED TEMPERATURE SENSING

MARKET BY OPERATING PRINCIPLE, 2019 - 2025, USD MILLION

TABLE 57 REST OF NORTH AMERICA DISTRIBUTED TEMPERATURE SENSING

MARKET BY FIBER TYPE, 2015 - 2018, USD MILLION

TABLE 58 REST OF NORTH AMERICA DISTRIBUTED TEMPERATURE SENSING

MARKET BY FIBER TYPE, 2019 - 2025, USD MILLION

TABLE 59 REST OF NORTH AMERICA DISTRIBUTED TEMPERATURE SENSING

MARKET BY APPLICATION, 2015 - 2018, USD MILLION

TABLE 60 REST OF NORTH AMERICA DISTRIBUTED TEMPERATURE SENSING

MARKET BY APPLICATION, 2019 - 2025, USD MILLION

TABLE 61 KEY INFORMATION – YOKOGAWA ELECTRIC CORPORATION

TABLE 62 KEY INFORMATION – HALLIBURTON COMPANY

TABLE 63 KEY INFORMATION – AP SENSING GMBH

TABLE 64 KEY INFORMATION – SCHLUMBERGER N.V.

TABLE 65 KEY INFORMATION – NKT A/S

TABLE 66 KEY INFORMATION – THE FURUKAWA ELECTRIC COMPANY

TABLE 67 KEY INFORMATION – BANDWEAVER TECHNOLOGIES LTD.

TABLE 68 KEY INFORMATION – OPTROMIX, INC.

TABLE 69 KEY INFORMATION – SENSORNET LIMITED

TABLE 70 KEY INFORMATION – SILIXA LTD.

## List Of Figures

### LIST OF FIGURES

FIG 1 METHODOLOGY FOR THE RESEARCH

FIG 2 KEY LEADING STRATEGIES: PERCENTAGE DISTRIBUTION (2015-2019)

FIG 3 RECENT STRATEGIES AND DEVELOPMENTS: AP SENSING GMBH

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