

# Global Integrated Temperature Sensor Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Integrated Temperature Sensor market size is expected to reach \$ 732 million by 2032, rising at a market growth of 4.2% CAGR during the forecast period (2026-2032).

In 2025, global sales of Integrated Temperature Sensor reached approximately 12 million units, with an average market price of about USD 45 per unit, an annual production capacity of roughly 15 million units, and an industry-average gross margin of approximately 28%.

The integrated temperature sensor is an integrated industrial temperature measuring instrument, belonging to the category of instrumentation equipment. It consists of temperature sensing elements such as thermocouples and resistance temperature detectors (RTDs) combined with a temperature transmitter module, and is mainly used in the field of industrial temperature monitoring. It adopts an all-stainless steel structure and supports explosion-proof and fire-resistant designs. The core module integrates a reference unit, signal conversion circuit, and multiple protection functions.

Upstream includes thermocouple wires, platinum RTD elements, stainless-steel protection tubes, flanges and compression fittings, terminal heads, electronic components, isolation/transmitter chips, cables, and explosion-proof accessories. Midstream involves temperature-probe manufacturing, transmitter-module design and assembly, calibration, pressure/explosion-proof certification, and final system integration. Downstream demand is concentrated in petrochemical, oil and gas, power generation, metallurgy, chemicals, pharmaceuticals, food and beverage, HVAC, boilers, reactors, heat exchangers, storage tanks, pipelines, and broader process-equipment temperature monitoring and control. Endress+Hauser publicly states that its modular

industrial thermometers are used in heat exchangers, dryers, reactors, and similar applications, while hazardous-area models target safety-critical sectors such as chemicals, oil and gas, and energy.

This report studies the global Integrated Temperature Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Integrated Temperature Sensor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Integrated Temperature Sensor that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Integrated Temperature Sensor total production and demand, 2021-2032, (K Units)

Global Integrated Temperature Sensor total production value, 2021-2032, (USD Million)

Global Integrated Temperature Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Integrated Temperature Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Integrated Temperature Sensor domestic production, consumption, key domestic manufacturers and share

Global Integrated Temperature Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Integrated Temperature Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Integrated Temperature Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Integrated Temperature Sensor market

based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Endress+Hauser, Emerson, WIKA, Yokogawa, ABB, Siemens, Honeywell, Azbil, JUMO, OMEGA, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Integrated Temperature Sensor market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Integrated Temperature Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Integrated Temperature Sensor Market, Segmentation by Type:

DC Millivolt Temperature Sensor

Thermocouple Temperature Sensor

Resistor Temperature Sensor

Global Integrated Temperature Sensor Market, Segmentation by Explosion-proof Rating:

Standard Type

Explosion-proof Type

Global Integrated Temperature Sensor Market, Segmentation by Application:

Oil & Gas

Power

Chemical

Pharmaceutical

Others

Companies Profiled:

Endress+Hauser

Emerson

WIKA

Yokogawa

ABB

Siemens

Honeywell

Azbil

JUMO

OMEGA

ifm

Pyromation

REOTEMP

Conax Technologies

Durex Industries

Minco

Thermo Electric Company

Chongqing Chuanyi

Micro Sensor

Huaxuan Sensing Technology

SenTec

### **Key Questions Answered:**

1. How big is the global Integrated Temperature Sensor market?
2. What is the demand of the global Integrated Temperature Sensor market?
3. What is the year over year growth of the global Integrated Temperature Sensor market?

4. What is the production and production value of the global Integrated Temperature Sensor market?
5. Who are the key producers in the global Integrated Temperature Sensor market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Integrated Temperature Sensor Introduction
- 1.2 World Integrated Temperature Sensor Supply & Forecast
  - 1.2.1 World Integrated Temperature Sensor Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Integrated Temperature Sensor Production (2021-2032)
  - 1.2.3 World Integrated Temperature Sensor Pricing Trends (2021-2032)
- 1.3 World Integrated Temperature Sensor Production by Region (Based on Production Site)
  - 1.3.1 World Integrated Temperature Sensor Production Value by Region (2021-2032)
  - 1.3.2 World Integrated Temperature Sensor Production by Region (2021-2032)
  - 1.3.3 World Integrated Temperature Sensor Average Price by Region (2021-2032)
  - 1.3.4 North America Integrated Temperature Sensor Production (2021-2032)
  - 1.3.5 Europe Integrated Temperature Sensor Production (2021-2032)
  - 1.3.6 China Integrated Temperature Sensor Production (2021-2032)
  - 1.3.7 Japan Integrated Temperature Sensor Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Integrated Temperature Sensor Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Integrated Temperature Sensor Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Integrated Temperature Sensor Demand (2021-2032)
- 2.2 World Integrated Temperature Sensor Consumption by Region
  - 2.2.1 World Integrated Temperature Sensor Consumption by Region (2021-2026)
  - 2.2.2 World Integrated Temperature Sensor Consumption Forecast by Region (2027-2032)
- 2.3 United States Integrated Temperature Sensor Consumption (2021-2032)
- 2.4 China Integrated Temperature Sensor Consumption (2021-2032)
- 2.5 Europe Integrated Temperature Sensor Consumption (2021-2032)
- 2.6 Japan Integrated Temperature Sensor Consumption (2021-2032)
- 2.7 South Korea Integrated Temperature Sensor Consumption (2021-2032)
- 2.8 ASEAN Integrated Temperature Sensor Consumption (2021-2032)
- 2.9 India Integrated Temperature Sensor Consumption (2021-2032)

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Integrated Temperature Sensor Production Value by Manufacturer (2021-2026)
- 3.2 World Integrated Temperature Sensor Production by Manufacturer (2021-2026)
- 3.3 World Integrated Temperature Sensor Average Price by Manufacturer (2021-2026)
- 3.4 Integrated Temperature Sensor Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Integrated Temperature Sensor Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Integrated Temperature Sensor in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Integrated Temperature Sensor in 2025
- 3.6 Integrated Temperature Sensor Market: Overall Company Footprint Analysis
  - 3.6.1 Integrated Temperature Sensor Market: Region Footprint
  - 3.6.2 Integrated Temperature Sensor Market: Company Product Type Footprint
  - 3.6.3 Integrated Temperature Sensor Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Integrated Temperature Sensor Production Value Comparison
  - 4.1.1 United States VS China: Integrated Temperature Sensor Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Integrated Temperature Sensor Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Integrated Temperature Sensor Production Comparison
  - 4.2.1 United States VS China: Integrated Temperature Sensor Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Integrated Temperature Sensor Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Integrated Temperature Sensor Consumption Comparison
  - 4.3.1 United States VS China: Integrated Temperature Sensor Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Integrated Temperature Sensor Consumption Market Share Comparison (2021 & 2025 & 2032)

#### 4.4 United States Based Integrated Temperature Sensor Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Integrated Temperature Sensor Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Integrated Temperature Sensor Production Value (2021-2026)

4.4.3 United States Based Manufacturers Integrated Temperature Sensor Production (2021-2026)

#### 4.5 China Based Integrated Temperature Sensor Manufacturers and Market Share

4.5.1 China Based Integrated Temperature Sensor Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Integrated Temperature Sensor Production Value (2021-2026)

4.5.3 China Based Manufacturers Integrated Temperature Sensor Production (2021-2026)

#### 4.6 Rest of World Based Integrated Temperature Sensor Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Integrated Temperature Sensor Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Integrated Temperature Sensor Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Integrated Temperature Sensor Production (2021-2026)

### **5 MARKET ANALYSIS BY TYPE**

#### 5.1 World Integrated Temperature Sensor Market Size Overview by Type: 2021 VS 2025 VS 2032

#### 5.2 Segment Introduction by Type

5.2.1 DC Millivolt Temperature Sensor

5.2.2 Thermocouple Temperature Sensor

5.2.3 Resistor Temperature Sensor

#### 5.3 Market Segment by Type

5.3.1 World Integrated Temperature Sensor Production by Type (2021-2032)

5.3.2 World Integrated Temperature Sensor Production Value by Type (2021-2032)

5.3.3 World Integrated Temperature Sensor Average Price by Type (2021-2032)

### **6 MARKET ANALYSIS BY EXPLOSION-PROOF RATING**

6.1 World Integrated Temperature Sensor Market Size Overview by Explosion-proof Rating: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Explosion-proof Rating

6.2.1 Standard Type

6.2.2 Explosion-proof Type

6.3 Market Segment by Explosion-proof Rating

6.3.1 World Integrated Temperature Sensor Production by Explosion-proof Rating (2021-2032)

6.3.2 World Integrated Temperature Sensor Production Value by Explosion-proof Rating (2021-2032)

6.3.3 World Integrated Temperature Sensor Average Price by Explosion-proof Rating (2021-2032)

## **7 MARKET ANALYSIS BY APPLICATION**

7.1 World Integrated Temperature Sensor Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Oil & Gas

7.2.2 Power

7.2.3 Chemical

7.2.4 Pharmaceutical

7.2.5 Others

7.3 Market Segment by Application

7.3.1 World Integrated Temperature Sensor Production by Application (2021-2032)

7.3.2 World Integrated Temperature Sensor Production Value by Application (2021-2032)

7.3.3 World Integrated Temperature Sensor Average Price by Application (2021-2032)

## **8 COMPANY PROFILES**

8.1 Endress+Hauser

8.1.1 Endress+Hauser Details

8.1.2 Endress+Hauser Major Business

8.1.3 Endress+Hauser Integrated Temperature Sensor Product and Services

8.1.4 Endress+Hauser Integrated Temperature Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.1.5 Endress+Hauser Recent Developments/Updates

8.1.6 Endress+Hauser Competitive Strengths & Weaknesses

## 8.2 Emerson

### 8.2.1 Emerson Details

### 8.2.2 Emerson Major Business

### 8.2.3 Emerson Integrated Temperature Sensor Product and Services

### 8.2.4 Emerson Integrated Temperature Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 8.2.5 Emerson Recent Developments/Updates

### 8.2.6 Emerson Competitive Strengths & Weaknesses

## 8.3 WIKA

### 8.3.1 WIKA Details

### 8.3.2 WIKA Major Business

### 8.3.3 WIKA Integrated Temperature Sensor Product and Services

### 8.3.4 WIKA Integrated Temperature Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 8.3.5 WIKA Recent Developments/Updates

### 8.3.6 WIKA Competitive Strengths & Weaknesses

## 8.4 Yokogawa

### 8.4.1 Yokogawa Details

### 8.4.2 Yokogawa Major Business

### 8.4.3 Yokogawa Integrated Temperature Sensor Product and Services

### 8.4.4 Yokogawa Integrated Temperature Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 8.4.5 Yokogawa Recent Developments/Updates

### 8.4.6 Yokogawa Competitive Strengths & Weaknesses

## 8.5 ABB

### 8.5.1 ABB Details

### 8.5.2 ABB Major Business

### 8.5.3 ABB Integrated Temperature Sensor Product and Services

### 8.5.4 ABB Integrated Temperature Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 8.5.5 ABB Recent Developments/Updates

### 8.5.6 ABB Competitive Strengths & Weaknesses

## 8.6 Siemens

### 8.6.1 Siemens Details

### 8.6.2 Siemens Major Business

### 8.6.3 Siemens Integrated Temperature Sensor Product and Services

### 8.6.4 Siemens Integrated Temperature Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 8.6.5 Siemens Recent Developments/Updates

### 8.6.6 Siemens Competitive Strengths & Weaknesses

## 8.7 Honeywell

### 8.7.1 Honeywell Details

### 8.7.2 Honeywell Major Business

### 8.7.3 Honeywell Integrated Temperature Sensor Product and Services

### 8.7.4 Honeywell Integrated Temperature Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 8.7.5 Honeywell Recent Developments/Updates

### 8.7.6 Honeywell Competitive Strengths & Weaknesses

## 8.8 Azbil

### 8.8.1 Azbil Details

### 8.8.2 Azbil Major Business

### 8.8.3 Azbil Integrated Temperature Sensor Product and Services

### 8.8.4 Azbil Integrated Temperature Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 8.8.5 Azbil Recent Developments/Updates

### 8.8.6 Azbil Competitive Strengths & Weaknesses

## 8.9 JUMO

### 8.9.1 JUMO Details

### 8.9.2 JUMO Major Business

### 8.9.3 JUMO Integrated Temperature Sensor Product and Services

### 8.9.4 JUMO Integrated Temperature Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 8.9.5 JUMO Recent Developments/Updates

### 8.9.6 JUMO Competitive Strengths & Weaknesses

## 8.10 OMEGA

### 8.10.1 OMEGA Details

### 8.10.2 OMEGA Major Business

### 8.10.3 OMEGA Integrated Temperature Sensor Product and Services

### 8.10.4 OMEGA Integrated Temperature Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 8.10.5 OMEGA Recent Developments/Updates

### 8.10.6 OMEGA Competitive Strengths & Weaknesses

## 8.11 ifm

### 8.11.1 ifm Details

### 8.11.2 ifm Major Business

### 8.11.3 ifm Integrated Temperature Sensor Product and Services

### 8.11.4 ifm Integrated Temperature Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 8.11.5 ifm Recent Developments/Updates
- 8.11.6 ifm Competitive Strengths & Weaknesses
- 8.12 Pyromation
  - 8.12.1 Pyromation Details
  - 8.12.2 Pyromation Major Business
  - 8.12.3 Pyromation Integrated Temperature Sensor Product and Services
  - 8.12.4 Pyromation Integrated Temperature Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.12.5 Pyromation Recent Developments/Updates
  - 8.12.6 Pyromation Competitive Strengths & Weaknesses
- 8.13 REOTEMP
  - 8.13.1 REOTEMP Details
  - 8.13.2 REOTEMP Major Business
  - 8.13.3 REOTEMP Integrated Temperature Sensor Product and Services
  - 8.13.4 REOTEMP Integrated Temperature Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.13.5 REOTEMP Recent Developments/Updates
  - 8.13.6 REOTEMP Competitive Strengths & Weaknesses
- 8.14 Conax Technologies
  - 8.14.1 Conax Technologies Details
  - 8.14.2 Conax Technologies Major Business
  - 8.14.3 Conax Technologies Integrated Temperature Sensor Product and Services
  - 8.14.4 Conax Technologies Integrated Temperature Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.14.5 Conax Technologies Recent Developments/Updates
  - 8.14.6 Conax Technologies Competitive Strengths & Weaknesses
- 8.15 Durex Industries
  - 8.15.1 Durex Industries Details
  - 8.15.2 Durex Industries Major Business
  - 8.15.3 Durex Industries Integrated Temperature Sensor Product and Services
  - 8.15.4 Durex Industries Integrated Temperature Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.15.5 Durex Industries Recent Developments/Updates
  - 8.15.6 Durex Industries Competitive Strengths & Weaknesses
- 8.16 Minco
  - 8.16.1 Minco Details
  - 8.16.2 Minco Major Business
  - 8.16.3 Minco Integrated Temperature Sensor Product and Services
  - 8.16.4 Minco Integrated Temperature Sensor Production, Price, Value, Gross Margin

and Market Share (2021-2026)

8.16.5 Minco Recent Developments/Updates

8.16.6 Minco Competitive Strengths & Weaknesses

8.17 Thermo Electric Company

8.17.1 Thermo Electric Company Details

8.17.2 Thermo Electric Company Major Business

8.17.3 Thermo Electric Company Integrated Temperature Sensor Product and Services

8.17.4 Thermo Electric Company Integrated Temperature Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.17.5 Thermo Electric Company Recent Developments/Updates

8.17.6 Thermo Electric Company Competitive Strengths & Weaknesses

8.18 Chongqing Chuanyi

8.18.1 Chongqing Chuanyi Details

8.18.2 Chongqing Chuanyi Major Business

8.18.3 Chongqing Chuanyi Integrated Temperature Sensor Product and Services

8.18.4 Chongqing Chuanyi Integrated Temperature Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.18.5 Chongqing Chuanyi Recent Developments/Updates

8.18.6 Chongqing Chuanyi Competitive Strengths & Weaknesses

8.19 Micro Sensor

8.19.1 Micro Sensor Details

8.19.2 Micro Sensor Major Business

8.19.3 Micro Sensor Integrated Temperature Sensor Product and Services

8.19.4 Micro Sensor Integrated Temperature Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.19.5 Micro Sensor Recent Developments/Updates

8.19.6 Micro Sensor Competitive Strengths & Weaknesses

8.20 Huaxuan Sensing Technology

8.20.1 Huaxuan Sensing Technology Details

8.20.2 Huaxuan Sensing Technology Major Business

8.20.3 Huaxuan Sensing Technology Integrated Temperature Sensor Product and Services

8.20.4 Huaxuan Sensing Technology Integrated Temperature Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.20.5 Huaxuan Sensing Technology Recent Developments/Updates

8.20.6 Huaxuan Sensing Technology Competitive Strengths & Weaknesses

8.21 SenTec

8.21.1 SenTec Details

- 8.21.2 SenTec Major Business
- 8.21.3 SenTec Integrated Temperature Sensor Product and Services
- 8.21.4 SenTec Integrated Temperature Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.21.5 SenTec Recent Developments/Updates
- 8.21.6 SenTec Competitive Strengths & Weaknesses

## **9 INDUSTRY CHAIN ANALYSIS**

- 9.1 Integrated Temperature Sensor Industry Chain
- 9.2 Integrated Temperature Sensor Upstream Analysis
  - 9.2.1 Integrated Temperature Sensor Core Raw Materials
  - 9.2.2 Main Manufacturers of Integrated Temperature Sensor Core Raw Materials
- 9.3 Midstream Analysis
- 9.4 Downstream Analysis
- 9.5 Integrated Temperature Sensor Production Mode
- 9.6 Integrated Temperature Sensor Procurement Model
- 9.7 Integrated Temperature Sensor Industry Sales Model and Sales Channels
  - 9.7.1 Integrated Temperature Sensor Sales Model
  - 9.7.2 Integrated Temperature Sensor Typical Distributors

## **10 RESEARCH FINDINGS AND CONCLUSION**

## **11 APPENDIX**

- 11.1 Methodology
- 11.2 Research Process and Data Source
- 11.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Integrated Temperature Sensor Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Integrated Temperature Sensor Production Value by Region (2021-2026) & (USD Million)

Table 3. World Integrated Temperature Sensor Production Value by Region (2027-2032) & (USD Million)

Table 4. World Integrated Temperature Sensor Production Value Market Share by Region (2021-2026)

Table 5. World Integrated Temperature Sensor Production Value Market Share by Region (2027-2032)

Table 6. World Integrated Temperature Sensor Production by Region (2021-2026) & (K Units)

Table 7. World Integrated Temperature Sensor Production by Region (2027-2032) & (K Units)

Table 8. World Integrated Temperature Sensor Production Market Share by Region (2021-2026)

Table 9. World Integrated Temperature Sensor Production Market Share by Region (2027-2032)

Table 10. World Integrated Temperature Sensor Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Integrated Temperature Sensor Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Integrated Temperature Sensor Major Market Trends

Table 13. World Integrated Temperature Sensor Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Integrated Temperature Sensor Consumption by Region (2021-2026) & (K Units)

Table 15. World Integrated Temperature Sensor Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Integrated Temperature Sensor Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Integrated Temperature Sensor Producers in 2025

Table 18. World Integrated Temperature Sensor Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Integrated Temperature Sensor Producers in 2025

Table 20. World Integrated Temperature Sensor Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Integrated Temperature Sensor Company Evaluation Quadrant

Table 22. World Integrated Temperature Sensor Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Integrated Temperature Sensor Production Site of Key Manufacturer

Table 24. Integrated Temperature Sensor Market: Company Product Type Footprint

Table 25. Integrated Temperature Sensor Market: Company Product Application Footprint

Table 26. Integrated Temperature Sensor Competitive Factors

Table 27. Integrated Temperature Sensor New Entrant and Capacity Expansion Plans

Table 28. Integrated Temperature Sensor Mergers & Acquisitions Activity

Table 29. United States VS China Integrated Temperature Sensor Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Integrated Temperature Sensor Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Integrated Temperature Sensor Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Integrated Temperature Sensor Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Integrated Temperature Sensor Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Integrated Temperature Sensor Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Integrated Temperature Sensor Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Integrated Temperature Sensor Production Market Share (2021-2026)

Table 37. China Based Integrated Temperature Sensor Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Integrated Temperature Sensor Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Integrated Temperature Sensor Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Integrated Temperature Sensor Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Integrated Temperature Sensor Production Market Share (2021-2026)

Table 42. Rest of World Based Integrated Temperature Sensor Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Integrated Temperature Sensor Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Integrated Temperature Sensor Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Integrated Temperature Sensor Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Integrated Temperature Sensor Production Market Share (2021-2026)

Table 47. World Integrated Temperature Sensor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Integrated Temperature Sensor Production by Type (2021-2026) & (K Units)

Table 49. World Integrated Temperature Sensor Production by Type (2027-2032) & (K Units)

Table 50. World Integrated Temperature Sensor Production Value by Type (2021-2026) & (USD Million)

Table 51. World Integrated Temperature Sensor Production Value by Type (2027-2032) & (USD Million)

Table 52. World Integrated Temperature Sensor Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Integrated Temperature Sensor Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Integrated Temperature Sensor Production Value by Explosion-proof Rating, (USD Million), 2021 & 2025 & 2032

Table 55. World Integrated Temperature Sensor Production by Explosion-proof Rating (2021-2026) & (K Units)

Table 56. World Integrated Temperature Sensor Production by Explosion-proof Rating (2027-2032) & (K Units)

Table 57. World Integrated Temperature Sensor Production Value by Explosion-proof Rating (2021-2026) & (USD Million)

Table 58. World Integrated Temperature Sensor Production Value by Explosion-proof Rating (2027-2032) & (USD Million)

Table 59. World Integrated Temperature Sensor Average Price by Explosion-proof Rating (2021-2026) & (US\$/Unit)

Table 60. World Integrated Temperature Sensor Average Price by Explosion-proof

Rating (2027-2032) & (US\$/Unit)

Table 61. World Integrated Temperature Sensor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Integrated Temperature Sensor Production by Application (2021-2026) & (K Units)

Table 63. World Integrated Temperature Sensor Production by Application (2027-2032) & (K Units)

Table 64. World Integrated Temperature Sensor Production Value by Application (2021-2026) & (USD Million)

Table 65. World Integrated Temperature Sensor Production Value by Application (2027-2032) & (USD Million)

Table 66. World Integrated Temperature Sensor Average Price by Application (2021-2026) & (US\$/Unit)

Table 67. World Integrated Temperature Sensor Average Price by Application (2027-2032) & (US\$/Unit)

Table 68. Endress+Hauser Basic Information, Manufacturing Base and Competitors

Table 69. Endress+Hauser Major Business

Table 70. Endress+Hauser Integrated Temperature Sensor Product and Services

Table 71. Endress+Hauser Integrated Temperature Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. Endress+Hauser Recent Developments/Updates

Table 73. Endress+Hauser Competitive Strengths & Weaknesses

Table 74. Emerson Basic Information, Manufacturing Base and Competitors

Table 75. Emerson Major Business

Table 76. Emerson Integrated Temperature Sensor Product and Services

Table 77. Emerson Integrated Temperature Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Emerson Recent Developments/Updates

Table 79. Emerson Competitive Strengths & Weaknesses

Table 80. WIKA Basic Information, Manufacturing Base and Competitors

Table 81. WIKA Major Business

Table 82. WIKA Integrated Temperature Sensor Product and Services

Table 83. WIKA Integrated Temperature Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. WIKA Recent Developments/Updates

Table 85. WIKA Competitive Strengths & Weaknesses

Table 86. Yokogawa Basic Information, Manufacturing Base and Competitors

Table 87. Yokogawa Major Business

Table 88. Yokogawa Integrated Temperature Sensor Product and Services

Table 89. Yokogawa Integrated Temperature Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Yokogawa Recent Developments/Updates

Table 91. Yokogawa Competitive Strengths & Weaknesses

Table 92. ABB Basic Information, Manufacturing Base and Competitors

Table 93. ABB Major Business

Table 94. ABB Integrated Temperature Sensor Product and Services

Table 95. ABB Integrated Temperature Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. ABB Recent Developments/Updates

Table 97. ABB Competitive Strengths & Weaknesses

Table 98. Siemens Basic Information, Manufacturing Base and Competitors

Table 99. Siemens Major Business

Table 100. Siemens Integrated Temperature Sensor Product and Services

Table 101. Siemens Integrated Temperature Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. Siemens Recent Developments/Updates

Table 103. Siemens Competitive Strengths & Weaknesses

Table 104. Honeywell Basic Information, Manufacturing Base and Competitors

Table 105. Honeywell Major Business

Table 106. Honeywell Integrated Temperature Sensor Product and Services

Table 107. Honeywell Integrated Temperature Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 108. Honeywell Recent Developments/Updates

Table 109. Honeywell Competitive Strengths & Weaknesses

Table 110. Azbil Basic Information, Manufacturing Base and Competitors

Table 111. Azbil Major Business

Table 112. Azbil Integrated Temperature Sensor Product and Services

Table 113. Azbil Integrated Temperature Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. Azbil Recent Developments/Updates

Table 115. Azbil Competitive Strengths & Weaknesses

Table 116. JUMO Basic Information, Manufacturing Base and Competitors

Table 117. JUMO Major Business

- Table 118. JUMO Integrated Temperature Sensor Product and Services
- Table 119. JUMO Integrated Temperature Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 120. JUMO Recent Developments/Updates
- Table 121. JUMO Competitive Strengths & Weaknesses
- Table 122. OMEGA Basic Information, Manufacturing Base and Competitors
- Table 123. OMEGA Major Business
- Table 124. OMEGA Integrated Temperature Sensor Product and Services
- Table 125. OMEGA Integrated Temperature Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 126. OMEGA Recent Developments/Updates
- Table 127. OMEGA Competitive Strengths & Weaknesses
- Table 128. ifm Basic Information, Manufacturing Base and Competitors
- Table 129. ifm Major Business
- Table 130. ifm Integrated Temperature Sensor Product and Services
- Table 131. ifm Integrated Temperature Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 132. ifm Recent Developments/Updates
- Table 133. ifm Competitive Strengths & Weaknesses
- Table 134. Pyromation Basic Information, Manufacturing Base and Competitors
- Table 135. Pyromation Major Business
- Table 136. Pyromation Integrated Temperature Sensor Product and Services
- Table 137. Pyromation Integrated Temperature Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 138. Pyromation Recent Developments/Updates
- Table 139. Pyromation Competitive Strengths & Weaknesses
- Table 140. REOTEMP Basic Information, Manufacturing Base and Competitors
- Table 141. REOTEMP Major Business
- Table 142. REOTEMP Integrated Temperature Sensor Product and Services
- Table 143. REOTEMP Integrated Temperature Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 144. REOTEMP Recent Developments/Updates
- Table 145. REOTEMP Competitive Strengths & Weaknesses
- Table 146. Conax Technologies Basic Information, Manufacturing Base and Competitors

Table 147. Conax Technologies Major Business

Table 148. Conax Technologies Integrated Temperature Sensor Product and Services

Table 149. Conax Technologies Integrated Temperature Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 150. Conax Technologies Recent Developments/Updates

Table 151. Conax Technologies Competitive Strengths & Weaknesses

Table 152. Durex Industries Basic Information, Manufacturing Base and Competitors

Table 153. Durex Industries Major Business

Table 154. Durex Industries Integrated Temperature Sensor Product and Services

Table 155. Durex Industries Integrated Temperature Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 156. Durex Industries Recent Developments/Updates

Table 157. Durex Industries Competitive Strengths & Weaknesses

Table 158. Minco Basic Information, Manufacturing Base and Competitors

Table 159. Minco Major Business

Table 160. Minco Integrated Temperature Sensor Product and Services

Table 161. Minco Integrated Temperature Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 162. Minco Recent Developments/Updates

Table 163. Minco Competitive Strengths & Weaknesses

Table 164. Thermo Electric Company Basic Information, Manufacturing Base and Competitors

Table 165. Thermo Electric Company Major Business

Table 166. Thermo Electric Company Integrated Temperature Sensor Product and Services

Table 167. Thermo Electric Company Integrated Temperature Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 168. Thermo Electric Company Recent Developments/Updates

Table 169. Thermo Electric Company Competitive Strengths & Weaknesses

Table 170. Chongqing Chuanyi Basic Information, Manufacturing Base and Competitors

Table 171. Chongqing Chuanyi Major Business

Table 172. Chongqing Chuanyi Integrated Temperature Sensor Product and Services

Table 173. Chongqing Chuanyi Integrated Temperature Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 174. Chongqing Chuanyi Recent Developments/Updates
- Table 175. Chongqing Chuanyi Competitive Strengths & Weaknesses
- Table 176. Micro Sensor Basic Information, Manufacturing Base and Competitors
- Table 177. Micro Sensor Major Business
- Table 178. Micro Sensor Integrated Temperature Sensor Product and Services
- Table 179. Micro Sensor Integrated Temperature Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 180. Micro Sensor Recent Developments/Updates
- Table 181. Micro Sensor Competitive Strengths & Weaknesses
- Table 182. Huaxuan Sensing Technology Basic Information, Manufacturing Base and Competitors
- Table 183. Huaxuan Sensing Technology Major Business
- Table 184. Huaxuan Sensing Technology Integrated Temperature Sensor Product and Services
- Table 185. Huaxuan Sensing Technology Integrated Temperature Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 186. Huaxuan Sensing Technology Recent Developments/Updates
- Table 187. Huaxuan Sensing Technology Competitive Strengths & Weaknesses
- Table 188. SenTec Basic Information, Manufacturing Base and Competitors
- Table 189. SenTec Major Business
- Table 190. SenTec Integrated Temperature Sensor Product and Services
- Table 191. SenTec Integrated Temperature Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 192. SenTec Recent Developments/Updates
- Table 193. SenTec Competitive Strengths & Weaknesses
- Table 194. Global Key Players of Integrated Temperature Sensor Upstream (Raw Materials)
- Table 195. Global Integrated Temperature Sensor Typical Customers
- Table 196. Integrated Temperature Sensor Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Integrated Temperature Sensor Picture

Figure 2. World Integrated Temperature Sensor Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Integrated Temperature Sensor Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Integrated Temperature Sensor Production (2021-2032) & (K Units)

Figure 5. World Integrated Temperature Sensor Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Integrated Temperature Sensor Production Value Market Share by Region (2021-2032)

Figure 7. World Integrated Temperature Sensor Production Market Share by Region (2021-2032)

Figure 8. North America Integrated Temperature Sensor Production (2021-2032) & (K Units)

Figure 9. Europe Integrated Temperature Sensor Production (2021-2032) & (K Units)

Figure 10. China Integrated Temperature Sensor Production (2021-2032) & (K Units)

Figure 11. Japan Integrated Temperature Sensor Production (2021-2032) & (K Units)

Figure 12. Integrated Temperature Sensor Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Integrated Temperature Sensor Consumption (2021-2032) & (K Units)

Figure 15. World Integrated Temperature Sensor Consumption Market Share by Region (2021-2032)

Figure 16. United States Integrated Temperature Sensor Consumption (2021-2032) & (K Units)

Figure 17. China Integrated Temperature Sensor Consumption (2021-2032) & (K Units)

Figure 18. Europe Integrated Temperature Sensor Consumption (2021-2032) & (K Units)

Figure 19. Japan Integrated Temperature Sensor Consumption (2021-2032) & (K Units)

Figure 20. South Korea Integrated Temperature Sensor Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Integrated Temperature Sensor Consumption (2021-2032) & (K Units)

Figure 22. India Integrated Temperature Sensor Consumption (2021-2032) & (K Units)

Figure 23. Producer Shipments of Integrated Temperature Sensor by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Integrated Temperature Sensor Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Integrated Temperature Sensor Markets in 2025

Figure 26. United States VS China: Integrated Temperature Sensor Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Integrated Temperature Sensor Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Integrated Temperature Sensor Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Integrated Temperature Sensor Production Market Share 2025

Figure 30. China Based Manufacturers Integrated Temperature Sensor Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Integrated Temperature Sensor Production Market Share 2025

Figure 32. World Integrated Temperature Sensor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Integrated Temperature Sensor Production Value Market Share by Type in 2025

Figure 34. DC Millivolt Temperature Sensor

Figure 35. Thermocouple Temperature Sensor

Figure 36. Resistor Temperature Sensor

Figure 37. World Integrated Temperature Sensor Production Market Share by Type (2021-2032)

Figure 38. World Integrated Temperature Sensor Production Value Market Share by Type (2021-2032)

Figure 39. World Integrated Temperature Sensor Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Integrated Temperature Sensor Production Value by Explosion-proof Rating, (USD Million), 2021 & 2025 & 2032

Figure 41. World Integrated Temperature Sensor Production Value Market Share by Explosion-proof Rating in 2025

Figure 42. Standard Type

Figure 43. Explosion-proof Type

Figure 44. World Integrated Temperature Sensor Production Market Share by Explosion-proof Rating (2021-2032)

Figure 45. World Integrated Temperature Sensor Production Value Market Share by Explosion-proof Rating (2021-2032)

Figure 46. World Integrated Temperature Sensor Average Price by Explosion-proof Rating (2021-2032) & (US\$/Unit)

Figure 47. World Integrated Temperature Sensor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 48. World Integrated Temperature Sensor Production Value Market Share by Application in 2025

Figure 49. Oil & Gas

Figure 50. Power

Figure 51. Chemical

Figure 52. Pharmaceutical

Figure 53. Others

Figure 54. World Integrated Temperature Sensor Production Market Share by Application (2021-2032)

Figure 55. World Integrated Temperature Sensor Production Value Market Share by Application (2021-2032)

Figure 56. World Integrated Temperature Sensor Average Price by Application (2021-2032) & (US\$/Unit)

Figure 57. Integrated Temperature Sensor Industry Chain

Figure 58. Integrated Temperature Sensor Procurement Model

Figure 59. Integrated Temperature Sensor Sales Model

Figure 60. Integrated Temperature Sensor Sales Channels, Direct Sales, and Distribution

Figure 61. Methodology

Figure 62. Research Process and Data Source

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