

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

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Abstracts

The global Temperature and Pressure Sensor market size is expected to reach \$ 4377 million by 2032, rising at a market growth of 34.4% CAGR during the forecast period (2026-2032).

Temperature and Pressure Sensor is a composite sensor that integrates temperature detection elements and pressure detection elements into the same device. It can simultaneously measure the temperature and pressure parameters of the medium in real time, and convert the signal into a standard electrical signal output through a built-in circuit for monitoring equipment operation status and process control. This type of sensor is usually manufactured using piezoresistive, capacitive, or MEMS technology, and has the characteristics of compact structure, easy installation, and high measurement stability. It is widely used in industrial automation systems, petrochemical equipment, energy equipment, refrigeration and HVAC systems, and automotive electronics. In 2025, global Temperature and Pressure Sensor production reached approximately 89.49 M Units, with an average global market price of around US\$ 6.12 per unit.

The demand for temperature and pressure integrated sensors is showing a continuous growth trend, mainly driven by the increasing demand for intelligent manufacturing, industrial automation upgrades, and digital monitoring of equipment. With the increasing demand for data acquisition accuracy and equipment security in industrial systems, integrated sensors are gradually replacing traditional split detection solutions. At the same time, the development of MEMS technology, digital communication technology, and IoT applications is also driving product upgrades towards miniaturization, intelligence, and high reliability. In the future, market competition will be more focused on product integration capabilities, long-term stability, and industry application solutions,

with industrial, energy, and automotive sectors remaining the main sources of growth.

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

This report is a detailed and comprehensive analysis of the world market for Temperature and Pressure 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 Temperature and Pressure Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Temperature and Pressure Sensor total production and demand, 2021-2032, (M Units)

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

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

Global Temperature and Pressure Sensor consumption by region & country, CAGR, 2021-2032 & (M Units)

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

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

Global Temperature and Pressure Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (M Units)

Global Temperature and Pressure Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (M Units)

This report profiles key players in the global Temperature and Pressure 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 Bosch, Sensata Technologies, TE Connectivity, Hella, Kulite, Shenzhen Ampron Technology, Gems Sensors, Variohm, Stellar Technology, KA Sensors Ltd, 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 Temperature and Pressure Sensor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (M 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 Temperature and Pressure Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Temperature and Pressure Sensor Market, Segmentation by Type:

Embedded Installation

Thread Installation

Global Temperature and Pressure Sensor Market, Segmentation by Electrical Connection:

Straight Out Cable

Hirschmann Joint

Others

Global Temperature and Pressure Sensor Market, Segmentation by Shell Material:

304 Stainless Steel

316 Stainless Steel

Global Temperature and Pressure Sensor Market, Segmentation by Application:

Automobile

Internet Of Things

Industrial

Oil and Gas Transportation

Medical Instruments

Others

Companies Profiled:

Bosch

Sensata Technologies

TE Connectivity

Hella

Kulite

Shenzhen Ampron Technology

Gems Sensors

Variohm

Stellar Technology

KA Sensors Ltd

Wuhan Huagong XingaoLi Electron

Piezo-Metrics

EMA Electronics

Hydrotechnik UK Ltd

Key Questions Answered:

1. How big is the global Temperature and Pressure Sensor market?
2. What is the demand of the global Temperature and Pressure Sensor market?
3. What is the year over year growth of the global Temperature and Pressure Sensor market?
4. What is the production and production value of the global Temperature and Pressure Sensor market?
5. Who are the key producers in the global Temperature and Pressure Sensor market?

6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

2.9 India Temperature and Pressure Sensor Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Temperature and Pressure Sensor Production Value by Manufacturer (2021-2026)

3.2 World Temperature and Pressure Sensor Production by Manufacturer (2021-2026)

3.3 World Temperature and Pressure Sensor Average Price by Manufacturer (2021-2026)

3.4 Temperature and Pressure Sensor Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Temperature and Pressure Sensor Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Temperature and Pressure Sensor in 2025

3.5.3 Global Concentration Ratios (CR8) for Temperature and Pressure Sensor in 2025

3.6 Temperature and Pressure Sensor Market: Overall Company Footprint Analysis

3.6.1 Temperature and Pressure Sensor Market: Region Footprint

3.6.2 Temperature and Pressure Sensor Market: Company Product Type Footprint

3.6.3 Temperature and Pressure 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: Temperature and Pressure Sensor Production Value Comparison

4.1.1 United States VS China: Temperature and Pressure Sensor Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Temperature and Pressure Sensor Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Temperature and Pressure Sensor Production Comparison

4.2.1 United States VS China: Temperature and Pressure Sensor Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Temperature and Pressure Sensor Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Temperature and Pressure Sensor Consumption Comparison

4.3.1 United States VS China: Temperature and Pressure Sensor Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Temperature and Pressure Sensor Consumption Market Share Comparison (2021 & 2025 & 2032)

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

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

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

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

4.5 China Based Temperature and Pressure Sensor Manufacturers and Market Share

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

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

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

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

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

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

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

5 MARKET ANALYSIS BY TYPE

5.1 World Temperature and Pressure Sensor Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Embedded Installation

5.2.2 Thread Installation

5.3 Market Segment by Type

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

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

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

6 MARKET ANALYSIS BY ELECTRICAL CONNECTION

6.1 World Temperature and Pressure Sensor Market Size Overview by Electrical Connection: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Electrical Connection

6.2.1 Straight Out Cable

6.2.2 Hirschmann Joint

6.2.3 Others

6.3 Market Segment by Electrical Connection

6.3.1 World Temperature and Pressure Sensor Production by Electrical Connection (2021-2032)

6.3.2 World Temperature and Pressure Sensor Production Value by Electrical Connection (2021-2032)

6.3.3 World Temperature and Pressure Sensor Average Price by Electrical Connection (2021-2032)

7 MARKET ANALYSIS BY SHELL MATERIAL

7.1 World Temperature and Pressure Sensor Market Size Overview by Shell Material: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Shell Material

7.2.1 304 Stainless Steel

7.2.2 316 Stainless Steel

7.3 Market Segment by Shell Material

7.3.1 World Temperature and Pressure Sensor Production by Shell Material (2021-2032)

7.3.2 World Temperature and Pressure Sensor Production Value by Shell Material (2021-2032)

7.3.3 World Temperature and Pressure Sensor Average Price by Shell Material (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Temperature and Pressure Sensor Market Size Overview by Application:

2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Automobile

8.2.2 Internet Of Things

8.2.3 Industrial

8.2.4 Oil and Gas Transportation

8.2.5 Medical Instruments

8.2.6 Others

8.3 Market Segment by Application

8.3.1 World Temperature and Pressure Sensor Production by Application (2021-2032)

8.3.2 World Temperature and Pressure Sensor Production Value by Application (2021-2032)

8.3.3 World Temperature and Pressure Sensor Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Bosch

9.1.1 Bosch Details

9.1.2 Bosch Major Business

9.1.3 Bosch Temperature and Pressure Sensor Product and Services

9.1.4 Bosch Temperature and Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Bosch Recent Developments/Updates

9.1.6 Bosch Competitive Strengths & Weaknesses

9.2 Sensata Technologies

9.2.1 Sensata Technologies Details

9.2.2 Sensata Technologies Major Business

9.2.3 Sensata Technologies Temperature and Pressure Sensor Product and Services

9.2.4 Sensata Technologies Temperature and Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Sensata Technologies Recent Developments/Updates

9.2.6 Sensata Technologies Competitive Strengths & Weaknesses

9.3 TE Connectivity

9.3.1 TE Connectivity Details

9.3.2 TE Connectivity Major Business

9.3.3 TE Connectivity Temperature and Pressure Sensor Product and Services

9.3.4 TE Connectivity Temperature and Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.3.5 TE Connectivity Recent Developments/Updates
- 9.3.6 TE Connectivity Competitive Strengths & Weaknesses
- 9.4 Hella
 - 9.4.1 Hella Details
 - 9.4.2 Hella Major Business
 - 9.4.3 Hella Temperature and Pressure Sensor Product and Services
 - 9.4.4 Hella Temperature and Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Hella Recent Developments/Updates
 - 9.4.6 Hella Competitive Strengths & Weaknesses
- 9.5 Kulite
 - 9.5.1 Kulite Details
 - 9.5.2 Kulite Major Business
 - 9.5.3 Kulite Temperature and Pressure Sensor Product and Services
 - 9.5.4 Kulite Temperature and Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Kulite Recent Developments/Updates
 - 9.5.6 Kulite Competitive Strengths & Weaknesses
- 9.6 Shenzhen Ampron Technology
 - 9.6.1 Shenzhen Ampron Technology Details
 - 9.6.2 Shenzhen Ampron Technology Major Business
 - 9.6.3 Shenzhen Ampron Technology Temperature and Pressure Sensor Product and Services
 - 9.6.4 Shenzhen Ampron Technology Temperature and Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Shenzhen Ampron Technology Recent Developments/Updates
 - 9.6.6 Shenzhen Ampron Technology Competitive Strengths & Weaknesses
- 9.7 Gems Sensors
 - 9.7.1 Gems Sensors Details
 - 9.7.2 Gems Sensors Major Business
 - 9.7.3 Gems Sensors Temperature and Pressure Sensor Product and Services
 - 9.7.4 Gems Sensors Temperature and Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Gems Sensors Recent Developments/Updates
 - 9.7.6 Gems Sensors Competitive Strengths & Weaknesses
- 9.8 Variohm
 - 9.8.1 Variohm Details
 - 9.8.2 Variohm Major Business
 - 9.8.3 Variohm Temperature and Pressure Sensor Product and Services

9.8.4 Variomh Temperature and Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Variomh Recent Developments/Updates

9.8.6 Variomh Competitive Strengths & Weaknesses

9.9 Stellar Technology

9.9.1 Stellar Technology Details

9.9.2 Stellar Technology Major Business

9.9.3 Stellar Technology Temperature and Pressure Sensor Product and Services

9.9.4 Stellar Technology Temperature and Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Stellar Technology Recent Developments/Updates

9.9.6 Stellar Technology Competitive Strengths & Weaknesses

9.10 KA Sensors Ltd

9.10.1 KA Sensors Ltd Details

9.10.2 KA Sensors Ltd Major Business

9.10.3 KA Sensors Ltd Temperature and Pressure Sensor Product and Services

9.10.4 KA Sensors Ltd Temperature and Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 KA Sensors Ltd Recent Developments/Updates

9.10.6 KA Sensors Ltd Competitive Strengths & Weaknesses

9.11 Wuhan Huagong Xingaoli Electron

9.11.1 Wuhan Huagong Xingaoli Electron Details

9.11.2 Wuhan Huagong Xingaoli Electron Major Business

9.11.3 Wuhan Huagong Xingaoli Electron Temperature and Pressure Sensor Product and Services

9.11.4 Wuhan Huagong Xingaoli Electron Temperature and Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Wuhan Huagong Xingaoli Electron Recent Developments/Updates

9.11.6 Wuhan Huagong Xingaoli Electron Competitive Strengths & Weaknesses

9.12 Piezo-Metrics

9.12.1 Piezo-Metrics Details

9.12.2 Piezo-Metrics Major Business

9.12.3 Piezo-Metrics Temperature and Pressure Sensor Product and Services

9.12.4 Piezo-Metrics Temperature and Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Piezo-Metrics Recent Developments/Updates

9.12.6 Piezo-Metrics Competitive Strengths & Weaknesses

9.13 EMA Electronics

9.13.1 EMA Electronics Details

- 9.13.2 EMA Electronics Major Business
- 9.13.3 EMA Electronics Temperature and Pressure Sensor Product and Services
- 9.13.4 EMA Electronics Temperature and Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.13.5 EMA Electronics Recent Developments/Updates
- 9.13.6 EMA Electronics Competitive Strengths & Weaknesses
- 9.14 Hydrotechnik UK Ltd
 - 9.14.1 Hydrotechnik UK Ltd Details
 - 9.14.2 Hydrotechnik UK Ltd Major Business
 - 9.14.3 Hydrotechnik UK Ltd Temperature and Pressure Sensor Product and Services
 - 9.14.4 Hydrotechnik UK Ltd Temperature and Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Hydrotechnik UK Ltd Recent Developments/Updates
 - 9.14.6 Hydrotechnik UK Ltd Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Temperature and Pressure Sensor Industry Chain
- 10.2 Temperature and Pressure Sensor Upstream Analysis
 - 10.2.1 Temperature and Pressure Sensor Core Raw Materials
 - 10.2.2 Main Manufacturers of Temperature and Pressure Sensor Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Temperature and Pressure Sensor Production Mode
- 10.6 Temperature and Pressure Sensor Procurement Model
- 10.7 Temperature and Pressure Sensor Industry Sales Model and Sales Channels
 - 10.7.1 Temperature and Pressure Sensor Sales Model
 - 10.7.2 Temperature and Pressure Sensor Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World Temperature and Pressure Sensor Production Value by Region (2021, 2025 and 2032) & (USD Million)
- Table 2. World Temperature and Pressure Sensor Production Value by Region (2021-2026) & (USD Million)
- Table 3. World Temperature and Pressure Sensor Production Value by Region (2027-2032) & (USD Million)
- Table 4. World Temperature and Pressure Sensor Production Value Market Share by Region (2021-2026)
- Table 5. World Temperature and Pressure Sensor Production Value Market Share by Region (2027-2032)
- Table 6. World Temperature and Pressure Sensor Production by Region (2021-2026) & (M Units)
- Table 7. World Temperature and Pressure Sensor Production by Region (2027-2032) & (M Units)
- Table 8. World Temperature and Pressure Sensor Production Market Share by Region (2021-2026)
- Table 9. World Temperature and Pressure Sensor Production Market Share by Region (2027-2032)
- Table 10. World Temperature and Pressure Sensor Average Price by Region (2021-2026) & (US\$/Unit)
- Table 11. World Temperature and Pressure Sensor Average Price by Region (2027-2032) & (US\$/Unit)
- Table 12. Temperature and Pressure Sensor Major Market Trends
- Table 13. World Temperature and Pressure Sensor Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (M Units)
- Table 14. World Temperature and Pressure Sensor Consumption by Region (2021-2026) & (M Units)
- Table 15. World Temperature and Pressure Sensor Consumption Forecast by Region (2027-2032) & (M Units)
- Table 16. World Temperature and Pressure Sensor Production Value by Manufacturer (2021-2026) & (USD Million)
- Table 17. Production Value Market Share of Key Temperature and Pressure Sensor Producers in 2025
- Table 18. World Temperature and Pressure Sensor Production by Manufacturer (2021-2026) & (M Units)

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

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

Table 21. Global Temperature and Pressure Sensor Company Evaluation Quadrant

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

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

Table 24. Temperature and Pressure Sensor Market: Company Product Type Footprint

Table 25. Temperature and Pressure Sensor Market: Company Product Application Footprint

Table 26. Temperature and Pressure Sensor Competitive Factors

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

Table 28. Temperature and Pressure Sensor Mergers & Acquisitions Activity

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

Table 30. United States VS China Temperature and Pressure Sensor Production Comparison, (2021 & 2025 & 2032) & (M Units)

Table 31. United States VS China Temperature and Pressure Sensor Consumption Comparison, (2021 & 2025 & 2032) & (M Units)

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

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

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

Table 35. United States Based Manufacturers Temperature and Pressure Sensor Production (2021-2026) & (M Units)

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

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

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

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

Table 40. China Based Manufacturers Temperature and Pressure Sensor Production,

(2021-2026) & (M Units)

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

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

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

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

Table 45. Rest of World Based Manufacturers Temperature and Pressure Sensor Production, (2021-2026) & (M Units)

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

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

Table 48. World Temperature and Pressure Sensor Production by Type (2021-2026) & (M Units)

Table 49. World Temperature and Pressure Sensor Production by Type (2027-2032) & (M Units)

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

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

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

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

Table 54. World Temperature and Pressure Sensor Production Value by Electrical Connection, (USD Million), 2021 & 2025 & 2032

Table 55. World Temperature and Pressure Sensor Production by Electrical Connection (2021-2026) & (M Units)

Table 56. World Temperature and Pressure Sensor Production by Electrical Connection (2027-2032) & (M Units)

Table 57. World Temperature and Pressure Sensor Production Value by Electrical Connection (2021-2026) & (USD Million)

Table 58. World Temperature and Pressure Sensor Production Value by Electrical Connection (2027-2032) & (USD Million)

Table 59. World Temperature and Pressure Sensor Average Price by Electrical Connection (2021-2026) & (US\$/Unit)

Table 60. World Temperature and Pressure Sensor Average Price by Electrical Connection (2027-2032) & (US\$/Unit)

Table 61. World Temperature and Pressure Sensor Production Value by Shell Material, (USD Million), 2021 & 2025 & 2032

Table 62. World Temperature and Pressure Sensor Production by Shell Material (2021-2026) & (M Units)

Table 63. World Temperature and Pressure Sensor Production by Shell Material (2027-2032) & (M Units)

Table 64. World Temperature and Pressure Sensor Production Value by Shell Material (2021-2026) & (USD Million)

Table 65. World Temperature and Pressure Sensor Production Value by Shell Material (2027-2032) & (USD Million)

Table 66. World Temperature and Pressure Sensor Average Price by Shell Material (2021-2026) & (US\$/Unit)

Table 67. World Temperature and Pressure Sensor Average Price by Shell Material (2027-2032) & (US\$/Unit)

Table 68. World Temperature and Pressure Sensor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Temperature and Pressure Sensor Production by Application (2021-2026) & (M Units)

Table 70. World Temperature and Pressure Sensor Production by Application (2027-2032) & (M Units)

Table 71. World Temperature and Pressure Sensor Production Value by Application (2021-2026) & (USD Million)

Table 72. World Temperature and Pressure Sensor Production Value by Application (2027-2032) & (USD Million)

Table 73. World Temperature and Pressure Sensor Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Temperature and Pressure Sensor Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Bosch Basic Information, Manufacturing Base and Competitors

Table 76. Bosch Major Business

Table 77. Bosch Temperature and Pressure Sensor Product and Services

Table 78. Bosch Temperature and Pressure Sensor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Bosch Recent Developments/Updates

Table 80. Bosch Competitive Strengths & Weaknesses

Table 81. Sensata Technologies Basic Information, Manufacturing Base and

Competitors

Table 82. Sensata Technologies Major Business

Table 83. Sensata Technologies Temperature and Pressure Sensor Product and Services

Table 84. Sensata Technologies Temperature and Pressure Sensor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Sensata Technologies Recent Developments/Updates

Table 86. Sensata Technologies Competitive Strengths & Weaknesses

Table 87. TE Connectivity Basic Information, Manufacturing Base and Competitors

Table 88. TE Connectivity Major Business

Table 89. TE Connectivity Temperature and Pressure Sensor Product and Services

Table 90. TE Connectivity Temperature and Pressure Sensor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. TE Connectivity Recent Developments/Updates

Table 92. TE Connectivity Competitive Strengths & Weaknesses

Table 93. Hella Basic Information, Manufacturing Base and Competitors

Table 94. Hella Major Business

Table 95. Hella Temperature and Pressure Sensor Product and Services

Table 96. Hella Temperature and Pressure Sensor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Hella Recent Developments/Updates

Table 98. Hella Competitive Strengths & Weaknesses

Table 99. Kulite Basic Information, Manufacturing Base and Competitors

Table 100. Kulite Major Business

Table 101. Kulite Temperature and Pressure Sensor Product and Services

Table 102. Kulite Temperature and Pressure Sensor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Kulite Recent Developments/Updates

Table 104. Kulite Competitive Strengths & Weaknesses

Table 105. Shenzhen Ampron Technology Basic Information, Manufacturing Base and Competitors

Table 106. Shenzhen Ampron Technology Major Business

Table 107. Shenzhen Ampron Technology Temperature and Pressure Sensor Product and Services

Table 108. Shenzhen Ampron Technology Temperature and Pressure Sensor

Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Shenzhen Ampron Technology Recent Developments/Updates

Table 110. Shenzhen Ampron Technology Competitive Strengths & Weaknesses

Table 111. Gems Sensors Basic Information, Manufacturing Base and Competitors

Table 112. Gems Sensors Major Business

Table 113. Gems Sensors Temperature and Pressure Sensor Product and Services

Table 114. Gems Sensors Temperature and Pressure Sensor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Gems Sensors Recent Developments/Updates

Table 116. Gems Sensors Competitive Strengths & Weaknesses

Table 117. Variohm Basic Information, Manufacturing Base and Competitors

Table 118. Variohm Major Business

Table 119. Variohm Temperature and Pressure Sensor Product and Services

Table 120. Variohm Temperature and Pressure Sensor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Variohm Recent Developments/Updates

Table 122. Variohm Competitive Strengths & Weaknesses

Table 123. Stellar Technology Basic Information, Manufacturing Base and Competitors

Table 124. Stellar Technology Major Business

Table 125. Stellar Technology Temperature and Pressure Sensor Product and Services

Table 126. Stellar Technology Temperature and Pressure Sensor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Stellar Technology Recent Developments/Updates

Table 128. Stellar Technology Competitive Strengths & Weaknesses

Table 129. KA Sensors Ltd Basic Information, Manufacturing Base and Competitors

Table 130. KA Sensors Ltd Major Business

Table 131. KA Sensors Ltd Temperature and Pressure Sensor Product and Services

Table 132. KA Sensors Ltd Temperature and Pressure Sensor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. KA Sensors Ltd Recent Developments/Updates

Table 134. KA Sensors Ltd Competitive Strengths & Weaknesses

Table 135. Wuhan Huagong Xingaoli Electron Basic Information, Manufacturing Base and Competitors

Table 136. Wuhan Huagong Xingaoli Electron Major Business

Table 137. Wuhan Huagong Xingaoli Electron Temperature and Pressure Sensor Product and Services

Table 138. Wuhan Huagong Xingaoli Electron Temperature and Pressure Sensor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Wuhan Huagong Xingaoli Electron Recent Developments/Updates

Table 140. Wuhan Huagong Xingaoli Electron Competitive Strengths & Weaknesses

Table 141. Piezo-Metrics Basic Information, Manufacturing Base and Competitors

Table 142. Piezo-Metrics Major Business

Table 143. Piezo-Metrics Temperature and Pressure Sensor Product and Services

Table 144. Piezo-Metrics Temperature and Pressure Sensor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Piezo-Metrics Recent Developments/Updates

Table 146. Piezo-Metrics Competitive Strengths & Weaknesses

Table 147. EMA Electronics Basic Information, Manufacturing Base and Competitors

Table 148. EMA Electronics Major Business

Table 149. EMA Electronics Temperature and Pressure Sensor Product and Services

Table 150. EMA Electronics Temperature and Pressure Sensor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. EMA Electronics Recent Developments/Updates

Table 152. EMA Electronics Competitive Strengths & Weaknesses

Table 153. Hydrotechnik UK Ltd Basic Information, Manufacturing Base and Competitors

Table 154. Hydrotechnik UK Ltd Major Business

Table 155. Hydrotechnik UK Ltd Temperature and Pressure Sensor Product and Services

Table 156. Hydrotechnik UK Ltd Temperature and Pressure Sensor Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Hydrotechnik UK Ltd Recent Developments/Updates

Table 158. Hydrotechnik UK Ltd Competitive Strengths & Weaknesses

Table 159. Global Key Players of Temperature and Pressure Sensor Upstream (Raw Materials)

Table 160. Global Temperature and Pressure Sensor Typical Customers

Table 161. Temperature and Pressure Sensor Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Temperature and Pressure Sensor Picture

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

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

Figure 4. World Temperature and Pressure Sensor Production (2021-2032) & (M Units)

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

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

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

Figure 8. North America Temperature and Pressure Sensor Production (2021-2032) & (M Units)

Figure 9. Europe Temperature and Pressure Sensor Production (2021-2032) & (M Units)

Figure 10. China Temperature and Pressure Sensor Production (2021-2032) & (M Units)

Figure 11. Japan Temperature and Pressure Sensor Production (2021-2032) & (M Units)

Figure 12. South Korea Temperature and Pressure Sensor Production (2021-2032) & (M Units)

Figure 13. Temperature and Pressure Sensor Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Temperature and Pressure Sensor Consumption (2021-2032) & (M Units)

Figure 16. World Temperature and Pressure Sensor Consumption Market Share by Region (2021-2032)

Figure 17. United States Temperature and Pressure Sensor Consumption (2021-2032) & (M Units)

Figure 18. China Temperature and Pressure Sensor Consumption (2021-2032) & (M Units)

Figure 19. Europe Temperature and Pressure Sensor Consumption (2021-2032) & (M Units)

Figure 20. Japan Temperature and Pressure Sensor Consumption (2021-2032) & (M Units)

Units)

Figure 21. South Korea Temperature and Pressure Sensor Consumption (2021-2032) & (M Units)

Figure 22. ASEAN Temperature and Pressure Sensor Consumption (2021-2032) & (M Units)

Figure 23. India Temperature and Pressure Sensor Consumption (2021-2032) & (M Units)

Figure 24. Producer Shipments of Temperature and Pressure Sensor by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Temperature and Pressure Sensor Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Temperature and Pressure Sensor Markets in 2025

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

Figure 28. United States VS China: Temperature and Pressure Sensor Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Temperature and Pressure Sensor Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Temperature and Pressure Sensor Production Market Share 2025

Figure 31. China Based Manufacturers Temperature and Pressure Sensor Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Temperature and Pressure Sensor Production Market Share 2025

Figure 33. World Temperature and Pressure Sensor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Temperature and Pressure Sensor Production Value Market Share by Type in 2025

Figure 35. Embedded Installation

Figure 36. Thread Installation

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

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

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

Figure 40. World Temperature and Pressure Sensor Production Value by Electrical Connection, (USD Million), 2021 & 2025 & 2032

Figure 41. World Temperature and Pressure Sensor Production Value Market Share by Electrical Connection in 2025

Figure 42. Straight Out Cable

Figure 43. Hirschmann Joint

Figure 44. Others

Figure 45. World Temperature and Pressure Sensor Production Market Share by Electrical Connection (2021-2032)

Figure 46. World Temperature and Pressure Sensor Production Value Market Share by Electrical Connection (2021-2032)

Figure 47. World Temperature and Pressure Sensor Average Price by Electrical Connection (2021-2032) & (US\$/Unit)

Figure 48. World Temperature and Pressure Sensor Production Value by Shell Material, (USD Million), 2021 & 2025 & 2032

Figure 49. World Temperature and Pressure Sensor Production Value Market Share by Shell Material in 2025

Figure 50. 304 Stainless Steel

Figure 51. 316 Stainless Steel

Figure 52. World Temperature and Pressure Sensor Production Market Share by Shell Material (2021-2032)

Figure 53. World Temperature and Pressure Sensor Production Value Market Share by Shell Material (2021-2032)

Figure 54. World Temperature and Pressure Sensor Average Price by Shell Material (2021-2032) & (US\$/Unit)

Figure 55. World Temperature and Pressure Sensor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Temperature and Pressure Sensor Production Value Market Share by Application in 2025

Figure 57. Automobile

Figure 58. Internet Of Things

Figure 59. Industrial

Figure 60. Oil and Gas Transportation

Figure 61. Medical Instruments

Figure 62. Others

Figure 63. World Temperature and Pressure Sensor Production Market Share by Application (2021-2032)

Figure 64. World Temperature and Pressure Sensor Production Value Market Share by Application (2021-2032)

Figure 65. World Temperature and Pressure Sensor Average Price by Application (2021-2032) & (US\$/Unit)

Figure 66. Temperature and Pressure Sensor Industry Chain

Figure 67. Temperature and Pressure Sensor Procurement Model

Figure 68. Temperature and Pressure Sensor Sales Model

Figure 69. Temperature and Pressure Sensor Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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