

Global Pressure & Temperature Transducer Market Growth 2026-2032

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Abstracts

The global Pressure & Temperature Transducer market size is predicted to grow from US\$ 536 million in 2025 to US\$ 4576 million in 2032; it is expected to grow at a CAGR of 36.6% from 2026 to 2032.

Pressure and temperature sensors are a type of detection device used to measure changes in medium pressure and temperature and convert them into electrical signals for output. They typically consist of pressure sensitive components, temperature sensitive components, and signal processing circuits, and can achieve real-time monitoring of gas, liquid, or vapor state parameters. This type of sensor can simultaneously obtain critical operating condition data during the operation of industrial equipment, improve process control accuracy and equipment safety, and is widely used in industrial automation, energy equipment, automotive systems, HVAC equipment, and environmental monitoring. It is an important basic component in modern intelligent monitoring systems. In 2025, global Pressure & Temperature Transducer production reached approximately 89.49 M Units, with an average global market price of around US\$ 6.12 per unit.

The demand for pressure and temperature sensors continues to grow, mainly driven by the upgrading of industrial automation, the advancement of intelligent manufacturing, and the rapid popularization of IoT devices. With the continuous improvement of device digitization and system integration, the market's demand for high-precision, miniaturized, low-power, and intelligent sensors has significantly increased. At the same time, the development of MEMS technology and digital communication technology has also promoted the upgrading of products towards high integration and intelligent monitoring. In the future, industry competition will focus more on core technological capabilities, product reliability, and application solutions, with industrial, automotive, and

energy sectors remaining the main sources of market demand.

LP Information, Inc. (LPI) ' newest research report, the "Pressure & Temperature Transducer Industry Forecast" looks at past sales and reviews total world Pressure & Temperature Transducer sales in 2025, providing a comprehensive analysis by region and market sector of projected Pressure & Temperature Transducer sales for 2026 through 2032. With Pressure & Temperature Transducer sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Pressure & Temperature Transducer industry.

This Insight Report provides a comprehensive analysis of the global Pressure & Temperature Transducer landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Pressure & Temperature Transducer portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Pressure & Temperature Transducer market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Pressure & Temperature Transducer and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Pressure & Temperature Transducer.

This report presents a comprehensive overview, market shares, and growth opportunities of Pressure & Temperature Transducer market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Embedded Installation

Thread Installation

Segmentation by Electrical Connection:

Straight Out Cable

Hirschmann Joint

Others

Segmentation by Shell Material:

304 Stainless Steel

316 Stainless Steel

Segmentation by Application:

Automobile

Internet Of Things

Industrial

Oil and Gas Transportation

Medical Instruments

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global Pressure & Temperature Transducer market?
What factors are driving Pressure & Temperature Transducer market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?
How do Pressure & Temperature Transducer market opportunities vary by end market size?
How does Pressure & Temperature Transducer break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Pressure & Temperature Transducer Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Pressure & Temperature Transducer by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Pressure & Temperature Transducer by Country/Region, 2021, 2025 & 2032

2.2 Pressure & Temperature Transducer Segment by Type

- 2.2.1 Embedded Installation
 - 2.2.2 Thread Installation
 - 2.2.3 Pressure & Temperature Transducer Sales by Type
 - 2.2.3.1 Global Pressure & Temperature Transducer Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Pressure & Temperature Transducer Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Pressure & Temperature Transducer Sale Price by Type (2021-2026)
- #### 2.3 Pressure & Temperature Transducer Segment by Electrical Connection
- 2.3.1 Straight Out Cable
 - 2.3.2 Hirschmann Joint
 - 2.3.3 Others
 - 2.3.4 Pressure & Temperature Transducer Sales by Electrical Connection
 - 2.3.4.1 Global Pressure & Temperature Transducer Sales Market Share by Electrical Connection (2021-2026)
 - 2.3.4.2 Global Pressure & Temperature Transducer Revenue and Market Share by Electrical Connection (2021-2026)

2.3.4.3 Global Pressure & Temperature Transducer Sale Price by Electrical Connection (2021-2026)

2.4 Pressure & Temperature Transducer Segment by Shell Material

2.4.1 304 Stainless Steel

2.4.2 316 Stainless Steel

2.4.3 Pressure & Temperature Transducer Sales by Shell Material

2.4.3.1 Global Pressure & Temperature Transducer Sales Market Share by Shell Material (2021-2026)

2.4.3.2 Global Pressure & Temperature Transducer Revenue and Market Share by Shell Material (2021-2026)

2.4.3.3 Global Pressure & Temperature Transducer Sale Price by Shell Material (2021-2026)

2.5 Pressure & Temperature Transducer Segment by Application

2.5.1 Automobile

2.5.2 Internet Of Things

2.5.3 Industrial

2.5.4 Oil and Gas Transportation

2.5.5 Medical Instruments

2.5.6 Others

2.5.7 Pressure & Temperature Transducer Sales by Application

2.5.7.1 Global Pressure & Temperature Transducer Sale Market Share by Application (2021-2026)

2.5.7.2 Global Pressure & Temperature Transducer Revenue and Market Share by Application (2021-2026)

2.5.7.3 Global Pressure & Temperature Transducer Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Pressure & Temperature Transducer Breakdown Data by Company

3.1.1 Global Pressure & Temperature Transducer Annual Sales by Company (2021-2026)

3.1.2 Global Pressure & Temperature Transducer Sales Market Share by Company (2021-2026)

3.2 Global Pressure & Temperature Transducer Annual Revenue by Company (2021-2026)

3.2.1 Global Pressure & Temperature Transducer Revenue by Company (2021-2026)

3.2.2 Global Pressure & Temperature Transducer Revenue Market Share by Company (2021-2026)

- 3.3 Global Pressure & Temperature Transducer Sale Price by Company
- 3.4 Key Manufacturers Pressure & Temperature Transducer Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Pressure & Temperature Transducer Product Location Distribution
 - 3.4.2 Players Pressure & Temperature Transducer Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR PRESSURE & TEMPERATURE TRANSDUCER BY GEOGRAPHIC REGION

- 4.1 World Historic Pressure & Temperature Transducer Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Pressure & Temperature Transducer Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Pressure & Temperature Transducer Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Pressure & Temperature Transducer Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Pressure & Temperature Transducer Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Pressure & Temperature Transducer Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Pressure & Temperature Transducer Sales Growth
- 4.4 APAC Pressure & Temperature Transducer Sales Growth
- 4.5 Europe Pressure & Temperature Transducer Sales Growth
- 4.6 Middle East & Africa Pressure & Temperature Transducer Sales Growth

5 AMERICAS

- 5.1 Americas Pressure & Temperature Transducer Sales by Country
 - 5.1.1 Americas Pressure & Temperature Transducer Sales by Country (2021-2026)
 - 5.1.2 Americas Pressure & Temperature Transducer Revenue by Country (2021-2026)
- 5.2 Americas Pressure & Temperature Transducer Sales by Type (2021-2026)
- 5.3 Americas Pressure & Temperature Transducer Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Pressure & Temperature Transducer Sales by Region

6.1.1 APAC Pressure & Temperature Transducer Sales by Region (2021-2026)

6.1.2 APAC Pressure & Temperature Transducer Revenue by Region (2021-2026)

6.2 APAC Pressure & Temperature Transducer Sales by Type (2021-2026)

6.3 APAC Pressure & Temperature Transducer Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Pressure & Temperature Transducer by Country

7.1.1 Europe Pressure & Temperature Transducer Sales by Country (2021-2026)

7.1.2 Europe Pressure & Temperature Transducer Revenue by Country (2021-2026)

7.2 Europe Pressure & Temperature Transducer Sales by Type (2021-2026)

7.3 Europe Pressure & Temperature Transducer Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Pressure & Temperature Transducer by Country

8.1.1 Middle East & Africa Pressure & Temperature Transducer Sales by Country (2021-2026)

8.1.2 Middle East & Africa Pressure & Temperature Transducer Revenue by Country

(2021-2026)

8.2 Middle East & Africa Pressure & Temperature Transducer Sales by Type

(2021-2026)

8.3 Middle East & Africa Pressure & Temperature Transducer Sales by Application

(2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Pressure & Temperature Transducer

10.3 Manufacturing Process Analysis of Pressure & Temperature Transducer

10.4 Industry Chain Structure of Pressure & Temperature Transducer

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Pressure & Temperature Transducer Distributors

11.3 Pressure & Temperature Transducer Customer

12 WORLD FORECAST REVIEW FOR PRESSURE & TEMPERATURE TRANSDUCER BY GEOGRAPHIC REGION

12.1 Global Pressure & Temperature Transducer Market Size Forecast by Region

12.1.1 Global Pressure & Temperature Transducer Forecast by Region (2027-2032)

12.1.2 Global Pressure & Temperature Transducer Annual Revenue Forecast by Region (2027-2032)

- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Pressure & Temperature Transducer Forecast by Type (2027-2032)
- 12.7 Global Pressure & Temperature Transducer Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Bosch

- 13.1.1 Bosch Company Information
- 13.1.2 Bosch Pressure & Temperature Transducer Product Portfolios and Specifications
- 13.1.3 Bosch Pressure & Temperature Transducer Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.1.4 Bosch Main Business Overview
- 13.1.5 Bosch Latest Developments

13.2 Sensata Technologies

- 13.2.1 Sensata Technologies Company Information
- 13.2.2 Sensata Technologies Pressure & Temperature Transducer Product Portfolios and Specifications
- 13.2.3 Sensata Technologies Pressure & Temperature Transducer Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.2.4 Sensata Technologies Main Business Overview
- 13.2.5 Sensata Technologies Latest Developments

13.3 TE Connectivity

- 13.3.1 TE Connectivity Company Information
- 13.3.2 TE Connectivity Pressure & Temperature Transducer Product Portfolios and Specifications
- 13.3.3 TE Connectivity Pressure & Temperature Transducer Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.3.4 TE Connectivity Main Business Overview
- 13.3.5 TE Connectivity Latest Developments

13.4 Hella

- 13.4.1 Hella Company Information
- 13.4.2 Hella Pressure & Temperature Transducer Product Portfolios and Specifications
- 13.4.3 Hella Pressure & Temperature Transducer Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.4.4 Hella Main Business Overview
- 13.4.5 Hella Latest Developments
- 13.5 Kulite
 - 13.5.1 Kulite Company Information
 - 13.5.2 Kulite Pressure & Temperature Transducer Product Portfolios and Specifications
 - 13.5.3 Kulite Pressure & Temperature Transducer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Kulite Main Business Overview
 - 13.5.5 Kulite Latest Developments
- 13.6 Shenzhen Ampron Technology
 - 13.6.1 Shenzhen Ampron Technology Company Information
 - 13.6.2 Shenzhen Ampron Technology Pressure & Temperature Transducer Product Portfolios and Specifications
 - 13.6.3 Shenzhen Ampron Technology Pressure & Temperature Transducer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Shenzhen Ampron Technology Main Business Overview
 - 13.6.5 Shenzhen Ampron Technology Latest Developments
- 13.7 Gems Sensors
 - 13.7.1 Gems Sensors Company Information
 - 13.7.2 Gems Sensors Pressure & Temperature Transducer Product Portfolios and Specifications
 - 13.7.3 Gems Sensors Pressure & Temperature Transducer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Gems Sensors Main Business Overview
 - 13.7.5 Gems Sensors Latest Developments
- 13.8 Variohm
 - 13.8.1 Variohm Company Information
 - 13.8.2 Variohm Pressure & Temperature Transducer Product Portfolios and Specifications
 - 13.8.3 Variohm Pressure & Temperature Transducer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Variohm Main Business Overview
 - 13.8.5 Variohm Latest Developments
- 13.9 Stellar Technology
 - 13.9.1 Stellar Technology Company Information
 - 13.9.2 Stellar Technology Pressure & Temperature Transducer Product Portfolios and Specifications
 - 13.9.3 Stellar Technology Pressure & Temperature Transducer Sales, Revenue, Price

and Gross Margin (2021-2026)

13.9.4 Stellar Technology Main Business Overview

13.9.5 Stellar Technology Latest Developments

13.10 KA Sensors Ltd

13.10.1 KA Sensors Ltd Company Information

13.10.2 KA Sensors Ltd Pressure & Temperature Transducer Product Portfolios and Specifications

13.10.3 KA Sensors Ltd Pressure & Temperature Transducer Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 KA Sensors Ltd Main Business Overview

13.10.5 KA Sensors Ltd Latest Developments

13.11 Wuhan Huagong Xingaoli Electron

13.11.1 Wuhan Huagong Xingaoli Electron Company Information

13.11.2 Wuhan Huagong Xingaoli Electron Pressure & Temperature Transducer Product Portfolios and Specifications

13.11.3 Wuhan Huagong Xingaoli Electron Pressure & Temperature Transducer Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Wuhan Huagong Xingaoli Electron Main Business Overview

13.11.5 Wuhan Huagong Xingaoli Electron Latest Developments

13.12 Piezo-Metrics

13.12.1 Piezo-Metrics Company Information

13.12.2 Piezo-Metrics Pressure & Temperature Transducer Product Portfolios and Specifications

13.12.3 Piezo-Metrics Pressure & Temperature Transducer Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Piezo-Metrics Main Business Overview

13.12.5 Piezo-Metrics Latest Developments

13.13 EMA Electronics

13.13.1 EMA Electronics Company Information

13.13.2 EMA Electronics Pressure & Temperature Transducer Product Portfolios and Specifications

13.13.3 EMA Electronics Pressure & Temperature Transducer Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 EMA Electronics Main Business Overview

13.13.5 EMA Electronics Latest Developments

13.14 Hydrotechnik UK Ltd

13.14.1 Hydrotechnik UK Ltd Company Information

13.14.2 Hydrotechnik UK Ltd Pressure & Temperature Transducer Product Portfolios and Specifications

13.14.3 Hydrotechnik UK Ltd Pressure & Temperature Transducer Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Hydrotechnik UK Ltd Main Business Overview

13.14.5 Hydrotechnik UK Ltd Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Pressure & Temperature Transducer Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Pressure & Temperature Transducer Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Embedded Installation

Table 4. Major Players of Thread Installation

Table 5. Global Pressure & Temperature Transducer Sales by Type (2021-2026) & (M Units)

Table 6. Global Pressure & Temperature Transducer Sales Market Share by Type (2021-2026)

Table 7. Global Pressure & Temperature Transducer Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Pressure & Temperature Transducer Revenue Market Share by Type (2021-2026)

Table 9. Global Pressure & Temperature Transducer Sale Price by Type (2021-2026) & (US\$/Unit)

Table 10. Major Players of Straight Out Cable

Table 11. Major Players of Hirschmann Joint

Table 12. Major Players of Others

Table 13. Global Pressure & Temperature Transducer Sales by Electrical Connection (2021-2026) & (M Units)

Table 14. Global Pressure & Temperature Transducer Sales Market Share by Electrical Connection (2021-2026)

Table 15. Global Pressure & Temperature Transducer Revenue by Electrical Connection (2021-2026) & (\$ million)

Table 16. Global Pressure & Temperature Transducer Revenue Market Share by Electrical Connection (2021-2026)

Table 17. Global Pressure & Temperature Transducer Sale Price by Electrical Connection (2021-2026) & (US\$/Unit)

Table 18. Major Players of 304 Stainless Steel

Table 19. Major Players of 316 Stainless Steel

Table 20. Global Pressure & Temperature Transducer Sales by Shell Material (2021-2026) & (M Units)

Table 21. Global Pressure & Temperature Transducer Sales Market Share by Shell Material (2021-2026)

Table 22. Global Pressure & Temperature Transducer Revenue by Shell Material (2021-2026) & (\$ million)

Table 23. Global Pressure & Temperature Transducer Revenue Market Share by Shell Material (2021-2026)

Table 24. Global Pressure & Temperature Transducer Sale Price by Shell Material (2021-2026) & (US\$/Unit)

Table 25. Global Pressure & Temperature Transducer Sale by Application (2021-2026) & (M Units)

Table 26. Global Pressure & Temperature Transducer Sale Market Share by Application (2021-2026)

Table 27. Global Pressure & Temperature Transducer Revenue by Application (2021-2026) & (\$ million)

Table 28. Global Pressure & Temperature Transducer Revenue Market Share by Application (2021-2026)

Table 29. Global Pressure & Temperature Transducer Sale Price by Application (2021-2026) & (US\$/Unit)

Table 30. Global Pressure & Temperature Transducer Sales by Company (2021-2026) & (M Units)

Table 31. Global Pressure & Temperature Transducer Sales Market Share by Company (2021-2026)

Table 32. Global Pressure & Temperature Transducer Revenue by Company (2021-2026) & (\$ millions)

Table 33. Global Pressure & Temperature Transducer Revenue Market Share by Company (2021-2026)

Table 34. Global Pressure & Temperature Transducer Sale Price by Company (2021-2026) & (US\$/Unit)

Table 35. Key Manufacturers Pressure & Temperature Transducer Producing Area Distribution and Sales Area

Table 36. Players Pressure & Temperature Transducer Products Offered

Table 37. Pressure & Temperature Transducer Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 38. New Products and Potential Entrants

Table 39. Market M&A Activity & Strategy

Table 40. Global Pressure & Temperature Transducer Sales by Geographic Region (2021-2026) & (M Units)

Table 41. Global Pressure & Temperature Transducer Sales Market Share Geographic Region (2021-2026)

Table 42. Global Pressure & Temperature Transducer Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 43. Global Pressure & Temperature Transducer Revenue Market Share by Geographic Region (2021-2026)

Table 44. Global Pressure & Temperature Transducer Sales by Country/Region (2021-2026) & (M Units)

Table 45. Global Pressure & Temperature Transducer Sales Market Share by Country/Region (2021-2026)

Table 46. Global Pressure & Temperature Transducer Revenue by Country/Region (2021-2026) & (\$ millions)

Table 47. Global Pressure & Temperature Transducer Revenue Market Share by Country/Region (2021-2026)

Table 48. Americas Pressure & Temperature Transducer Sales by Country (2021-2026) & (M Units)

Table 49. Americas Pressure & Temperature Transducer Sales Market Share by Country (2021-2026)

Table 50. Americas Pressure & Temperature Transducer Revenue by Country (2021-2026) & (\$ millions)

Table 51. Americas Pressure & Temperature Transducer Sales by Type (2021-2026) & (M Units)

Table 52. Americas Pressure & Temperature Transducer Sales by Application (2021-2026) & (M Units)

Table 53. APAC Pressure & Temperature Transducer Sales by Region (2021-2026) & (M Units)

Table 54. APAC Pressure & Temperature Transducer Sales Market Share by Region (2021-2026)

Table 55. APAC Pressure & Temperature Transducer Revenue by Region (2021-2026) & (\$ millions)

Table 56. APAC Pressure & Temperature Transducer Sales by Type (2021-2026) & (M Units)

Table 57. APAC Pressure & Temperature Transducer Sales by Application (2021-2026) & (M Units)

Table 58. Europe Pressure & Temperature Transducer Sales by Country (2021-2026) & (M Units)

Table 59. Europe Pressure & Temperature Transducer Revenue by Country (2021-2026) & (\$ millions)

Table 60. Europe Pressure & Temperature Transducer Sales by Type (2021-2026) & (M Units)

Table 61. Europe Pressure & Temperature Transducer Sales by Application (2021-2026) & (M Units)

Table 62. Middle East & Africa Pressure & Temperature Transducer Sales by Country

(2021-2026) & (M Units)

Table 63. Middle East & Africa Pressure & Temperature Transducer Revenue Market Share by Country (2021-2026)

Table 64. Middle East & Africa Pressure & Temperature Transducer Sales by Type (2021-2026) & (M Units)

Table 65. Middle East & Africa Pressure & Temperature Transducer Sales by Application (2021-2026) & (M Units)

Table 66. Key Market Drivers & Growth Opportunities of Pressure & Temperature Transducer

Table 67. Key Market Challenges & Risks of Pressure & Temperature Transducer

Table 68. Key Industry Trends of Pressure & Temperature Transducer

Table 69. Pressure & Temperature Transducer Raw Material

Table 70. Key Suppliers of Raw Materials

Table 71. Pressure & Temperature Transducer Distributors List

Table 72. Pressure & Temperature Transducer Customer List

Table 73. Global Pressure & Temperature Transducer Sales Forecast by Region (2027-2032) & (M Units)

Table 74. Global Pressure & Temperature Transducer Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 75. Americas Pressure & Temperature Transducer Sales Forecast by Country (2027-2032) & (M Units)

Table 76. Americas Pressure & Temperature Transducer Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 77. APAC Pressure & Temperature Transducer Sales Forecast by Region (2027-2032) & (M Units)

Table 78. APAC Pressure & Temperature Transducer Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 79. Europe Pressure & Temperature Transducer Sales Forecast by Country (2027-2032) & (M Units)

Table 80. Europe Pressure & Temperature Transducer Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 81. Middle East & Africa Pressure & Temperature Transducer Sales Forecast by Country (2027-2032) & (M Units)

Table 82. Middle East & Africa Pressure & Temperature Transducer Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Global Pressure & Temperature Transducer Sales Forecast by Type (2027-2032) & (M Units)

Table 84. Global Pressure & Temperature Transducer Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 85. Global Pressure & Temperature Transducer Sales Forecast by Application (2027-2032) & (M Units)

Table 86. Global Pressure & Temperature Transducer Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 87. Bosch Basic Information, Pressure & Temperature Transducer Manufacturing Base, Sales Area and Its Competitors

Table 88. Bosch Pressure & Temperature Transducer Product Portfolios and Specifications

Table 89. Bosch Pressure & Temperature Transducer Sales (M Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 90. Bosch Main Business

Table 91. Bosch Latest Developments

Table 92. Sensata Technologies Basic Information, Pressure & Temperature Transducer Manufacturing Base, Sales Area and Its Competitors

Table 93. Sensata Technologies Pressure & Temperature Transducer Product Portfolios and Specifications

Table 94. Sensata Technologies Pressure & Temperature Transducer Sales (M Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 95. Sensata Technologies Main Business

Table 96. Sensata Technologies Latest Developments

Table 97. TE Connectivity Basic Information, Pressure & Temperature Transducer Manufacturing Base, Sales Area and Its Competitors

Table 98. TE Connectivity Pressure & Temperature Transducer Product Portfolios and Specifications

Table 99. TE Connectivity Pressure & Temperature Transducer Sales (M Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 100. TE Connectivity Main Business

Table 101. TE Connectivity Latest Developments

Table 102. Hella Basic Information, Pressure & Temperature Transducer Manufacturing Base, Sales Area and Its Competitors

Table 103. Hella Pressure & Temperature Transducer Product Portfolios and Specifications

Table 104. Hella Pressure & Temperature Transducer Sales (M Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 105. Hella Main Business

Table 106. Hella Latest Developments

Table 107. Kulite Basic Information, Pressure & Temperature Transducer Manufacturing Base, Sales Area and Its Competitors

Table 108. Kulite Pressure & Temperature Transducer Product Portfolios and

Specifications

Table 109. Kulite Pressure & Temperature Transducer Sales (M Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 110. Kulite Main Business

Table 111. Kulite Latest Developments

Table 112. Shenzhen Ampron Technology Basic Information, Pressure & Temperature Transducer Manufacturing Base, Sales Area and Its Competitors

Table 113. Shenzhen Ampron Technology Pressure & Temperature Transducer Product Portfolios and Specifications

Table 114. Shenzhen Ampron Technology Pressure & Temperature Transducer Sales (M Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 115. Shenzhen Ampron Technology Main Business

Table 116. Shenzhen Ampron Technology Latest Developments

Table 117. Gems Sensors Basic Information, Pressure & Temperature Transducer Manufacturing Base, Sales Area and Its Competitors

Table 118. Gems Sensors Pressure & Temperature Transducer Product Portfolios and Specifications

Table 119. Gems Sensors Pressure & Temperature Transducer Sales (M Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 120. Gems Sensors Main Business

Table 121. Gems Sensors Latest Developments

Table 122. Variohm Basic Information, Pressure & Temperature Transducer Manufacturing Base, Sales Area and Its Competitors

Table 123. Variohm Pressure & Temperature Transducer Product Portfolios and Specifications

Table 124. Variohm Pressure & Temperature Transducer Sales (M Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 125. Variohm Main Business

Table 126. Variohm Latest Developments

Table 127. Stellar Technology Basic Information, Pressure & Temperature Transducer Manufacturing Base, Sales Area and Its Competitors

Table 128. Stellar Technology Pressure & Temperature Transducer Product Portfolios and Specifications

Table 129. Stellar Technology Pressure & Temperature Transducer Sales (M Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 130. Stellar Technology Main Business

Table 131. Stellar Technology Latest Developments

Table 132. KA Sensors Ltd Basic Information, Pressure & Temperature Transducer Manufacturing Base, Sales Area and Its Competitors

Table 133. KA Sensors Ltd Pressure & Temperature Transducer Product Portfolios and Specifications

Table 134. KA Sensors Ltd Pressure & Temperature Transducer Sales (M Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 135. KA Sensors Ltd Main Business

Table 136. KA Sensors Ltd Latest Developments

Table 137. Wuhan Huagong XingaoLi Electron Basic Information, Pressure & Temperature Transducer Manufacturing Base, Sales Area and Its Competitors

Table 138. Wuhan Huagong XingaoLi Electron Pressure & Temperature Transducer Product Portfolios and Specifications

Table 139. Wuhan Huagong XingaoLi Electron Pressure & Temperature Transducer Sales (M Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 140. Wuhan Huagong XingaoLi Electron Main Business

Table 141. Wuhan Huagong XingaoLi Electron Latest Developments

Table 142. Piezo-Metrics Basic Information, Pressure & Temperature Transducer Manufacturing Base, Sales Area and Its Competitors

Table 143. Piezo-Metrics Pressure & Temperature Transducer Product Portfolios and Specifications

Table 144. Piezo-Metrics Pressure & Temperature Transducer Sales (M Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 145. Piezo-Metrics Main Business

Table 146. Piezo-Metrics Latest Developments

Table 147. EMA Electronics Basic Information, Pressure & Temperature Transducer Manufacturing Base, Sales Area and Its Competitors

Table 148. EMA Electronics Pressure & Temperature Transducer Product Portfolios and Specifications

Table 149. EMA Electronics Pressure & Temperature Transducer Sales (M Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 150. EMA Electronics Main Business

Table 151. EMA Electronics Latest Developments

Table 152. Hydrotechnik UK Ltd Basic Information, Pressure & Temperature Transducer Manufacturing Base, Sales Area and Its Competitors

Table 153. Hydrotechnik UK Ltd Pressure & Temperature Transducer Product Portfolios and Specifications

Table 154. Hydrotechnik UK Ltd Pressure & Temperature Transducer Sales (M Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 155. Hydrotechnik UK Ltd Main Business

Table 156. Hydrotechnik UK Ltd Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Pressure & Temperature Transducer
- Figure 2. Pressure & Temperature Transducer Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Pressure & Temperature Transducer Sales Growth Rate 2021-2032 (M Units)
- Figure 7. Global Pressure & Temperature Transducer Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Pressure & Temperature Transducer Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Pressure & Temperature Transducer Sales Market Share by Country/Region (2025)
- Figure 10. Pressure & Temperature Transducer Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Embedded Installation
- Figure 12. Product Picture of Thread Installation
- Figure 13. Global Pressure & Temperature Transducer Sales Market Share by Type in 2026
- Figure 14. Global Pressure & Temperature Transducer Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Straight Out Cable
- Figure 16. Product Picture of Hirschmann Joint
- Figure 17. Product Picture of Others
- Figure 18. Global Pressure & Temperature Transducer Sales Market Share by Electrical Connection in 2026
- Figure 19. Global Pressure & Temperature Transducer Revenue Market Share by Electrical Connection (2021-2026)
- Figure 20. Product Picture of 304 Stainless Steel
- Figure 21. Product Picture of 316 Stainless Steel
- Figure 22. Global Pressure & Temperature Transducer Sales Market Share by Shell Material in 2026
- Figure 23. Global Pressure & Temperature Transducer Revenue Market Share by Shell Material (2021-2026)
- Figure 24. Pressure & Temperature Transducer Consumed in Automobile

Figure 25. Global Pressure & Temperature Transducer Market: Automobile (2021-2026) & (M Units)

Figure 26. Pressure & Temperature Transducer Consumed in Internet Of Things

Figure 27. Global Pressure & Temperature Transducer Market: Internet Of Things (2021-2026) & (M Units)

Figure 28. Pressure & Temperature Transducer Consumed in Industrial

Figure 29. Global Pressure & Temperature Transducer Market: Industrial (2021-2026) & (M Units)

Figure 30. Pressure & Temperature Transducer Consumed in Oil and Gas Transportation

Figure 31. Global Pressure & Temperature Transducer Market: Oil and Gas Transportation (2021-2026) & (M Units)

Figure 32. Pressure & Temperature Transducer Consumed in Medical Instruments

Figure 33. Global Pressure & Temperature Transducer Market: Medical Instruments (2021-2026) & (M Units)

Figure 34. Pressure & Temperature Transducer Consumed in Others

Figure 35. Global Pressure & Temperature Transducer Market: Others (2021-2026) & (M Units)

Figure 36. Global Pressure & Temperature Transducer Sale Market Share by Application (2025)

Figure 37. Global Pressure & Temperature Transducer Revenue Market Share by Application in 2025

Figure 38. Pressure & Temperature Transducer Sales by Company in 2025 (M Units)

Figure 39. Global Pressure & Temperature Transducer Sales Market Share by Company in 2025

Figure 40. Pressure & Temperature Transducer Revenue by Company in 2025 (\$ millions)

Figure 41. Global Pressure & Temperature Transducer Revenue Market Share by Company in 2025

Figure 42. Global Pressure & Temperature Transducer Sales Market Share by Geographic Region (2021-2026)

Figure 43. Global Pressure & Temperature Transducer Revenue Market Share by Geographic Region in 2025

Figure 44. Americas Pressure & Temperature Transducer Sales 2021-2026 (M Units)

Figure 45. Americas Pressure & Temperature Transducer Revenue 2021-2026 (\$ millions)

Figure 46. APAC Pressure & Temperature Transducer Sales 2021-2026 (M Units)

Figure 47. APAC Pressure & Temperature Transducer Revenue 2021-2026 (\$ millions)

Figure 48. Europe Pressure & Temperature Transducer Sales 2021-2026 (M Units)

Figure 49. Europe Pressure & Temperature Transducer Revenue 2021-2026 (\$ millions)

Figure 50. Middle East & Africa Pressure & Temperature Transducer Sales 2021-2026 (M Units)

Figure 51. Middle East & Africa Pressure & Temperature Transducer Revenue 2021-2026 (\$ millions)

Figure 52. Americas Pressure & Temperature Transducer Sales Market Share by Country in 2025

Figure 53. Americas Pressure & Temperature Transducer Revenue Market Share by Country (2021-2026)

Figure 54. Americas Pressure & Temperature Transducer Sales Market Share by Type (2021-2026)

Figure 55. Americas Pressure & Temperature Transducer Sales Market Share by Application (2021-2026)

Figure 56. United States Pressure & Temperature Transducer Revenue Growth 2021-2026 (\$ millions)

Figure 57. Canada Pressure & Temperature Transducer Revenue Growth 2021-2026 (\$ millions)

Figure 58. Mexico Pressure & Temperature Transducer Revenue Growth 2021-2026 (\$ millions)

Figure 59. Brazil Pressure & Temperature Transducer Revenue Growth 2021-2026 (\$ millions)

Figure 60. APAC Pressure & Temperature Transducer Sales Market Share by Region in 2025

Figure 61. APAC Pressure & Temperature Transducer Revenue Market Share by Region (2021-2026)

Figure 62. APAC Pressure & Temperature Transducer Sales Market Share by Type (2021-2026)

Figure 63. APAC Pressure & Temperature Transducer Sales Market Share by Application (2021-2026)

Figure 64. China Pressure & Temperature Transducer Revenue Growth 2021-2026 (\$ millions)

Figure 65. Japan Pressure & Temperature Transducer Revenue Growth 2021-2026 (\$ millions)

Figure 66. South Korea Pressure & Temperature Transducer Revenue Growth 2021-2026 (\$ millions)

Figure 67. Southeast Asia Pressure & Temperature Transducer Revenue Growth 2021-2026 (\$ millions)

Figure 68. India Pressure & Temperature Transducer Revenue Growth 2021-2026 (\$

millions)

Figure 69. Australia Pressure & Temperature Transducer Revenue Growth 2021-2026 (\$ millions)

Figure 70. China Taiwan Pressure & Temperature Transducer Revenue Growth 2021-2026 (\$ millions)

Figure 71. Europe Pressure & Temperature Transducer Sales Market Share by Country in 2025

Figure 72. Europe Pressure & Temperature Transducer Revenue Market Share by Country (2021-2026)

Figure 73. Europe Pressure & Temperature Transducer Sales Market Share by Type (2021-2026)

Figure 74. Europe Pressure & Temperature Transducer Sales Market Share by Application (2021-2026)

Figure 75. Germany Pressure & Temperature Transducer Revenue Growth 2021-2026 (\$ millions)

Figure 76. France Pressure & Temperature Transducer Revenue Growth 2021-2026 (\$ millions)

Figure 77. UK Pressure & Temperature Transducer Revenue Growth 2021-2026 (\$ millions)

Figure 78. Italy Pressure & Temperature Transducer Revenue Growth 2021-2026 (\$ millions)

Figure 79. Russia Pressure & Temperature Transducer Revenue Growth 2021-2026 (\$ millions)

Figure 80. Middle East & Africa Pressure & Temperature Transducer Sales Market Share by Country (2021-2026)

Figure 81. Middle East & Africa Pressure & Temperature Transducer Sales Market Share by Type (2021-2026)

Figure 82. Middle East & Africa Pressure & Temperature Transducer Sales Market Share by Application (2021-2026)

Figure 83. Egypt Pressure & Temperature Transducer Revenue Growth 2021-2026 (\$ millions)

Figure 84. South Africa Pressure & Temperature Transducer Revenue Growth 2021-2026 (\$ millions)

Figure 85. Israel Pressure & Temperature Transducer Revenue Growth 2021-2026 (\$ millions)

Figure 86. Turkey Pressure & Temperature Transducer Revenue Growth 2021-2026 (\$ millions)

Figure 87. GCC Countries Pressure & Temperature Transducer Revenue Growth 2021-2026 (\$ millions)

Figure 88. Manufacturing Cost Structure Analysis of Pressure & Temperature Transducer in 2026

Figure 89. Manufacturing Process Analysis of Pressure & Temperature Transducer

Figure 90. Industry Chain Structure of Pressure & Temperature Transducer

Figure 91. Channels of Distribution

Figure 92. Global Pressure & Temperature Transducer Sales Market Forecast by Region (2027-2032)

Figure 93. Global Pressure & Temperature Transducer Revenue Market Share Forecast by Region (2027-2032)

Figure 94. Global Pressure & Temperature Transducer Sales Market Share Forecast by Type (2027-2032)

Figure 95. Global Pressure & Temperature Transducer Revenue Market Share Forecast by Type (2027-2032)

Figure 96. Global Pressure & Temperature Transducer Sales Market Share Forecast by Application (2027-2032)

Figure 97. Global Pressure & Temperature Transducer Revenue Market Share Forecast by Application (2027-2032)

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