

Global Quartz Pressure Sensor Market Growth 2025-2031

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Abstracts

The global Quartz Pressure Sensor market size is predicted to grow from US\$ 521 million in 2025 to US\$ 715 million in 2031; it is expected to grow at a CAGR of 5.4% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

Quartz pressure sensor is a high-precision sensor that uses the piezoelectric effect of quartz crystal to measure pressure. It is widely used in high-end fields such as oil exploration and industrial process control. Its core principle is that when the quartz crystal is subjected to external pressure, a charge signal proportional to the pressure will be generated on the surface of the crystal. These signals are converted into readable voltage or digital quantity through a dedicated circuit, thereby realizing accurate monitoring of pressure changes. The quartz material itself has excellent thermal stability, extremely low temperature drift, corrosion resistance and anti-aging properties, which enables the quartz pressure sensor to maintain high sensitivity and long-term stability even under extreme conditions such as high temperature, high pressure and strong earthquake.

Market Trends

Quartz pressure sensors have irreplaceable advantages under harsh working conditions due to their excellent thermal stability, wide measurement range and high frequency response. Especially in extreme environments such as high temperature, high pressure and high vibration, such as gas turbines, deep-sea oil and gas exploration and missile

propulsion systems, the application of quartz pressure sensors is becoming more and more frequent. In addition, driven by the global wave of intelligent manufacturing and Industry 4.0, sensor systems are accelerating towards automation and intelligence, and quartz sensors are gradually realizing seamless integration with data acquisition and remote monitoring systems.

Market Disadvantages

The manufacturing technology threshold is high, involving the processing of high-purity quartz materials and high-precision packaging processes, which makes the product cost much higher than traditional strain or capacitive pressure sensors, which is not conducive to popularization in cost-sensitive markets. Quartz sensors are usually used in special fields, which put forward higher technical requirements for users and have relatively low market awareness. In addition, the core technology and market share in the world are mainly concentrated in a few high-end sensor companies in Europe and the United States, with a high degree of industry concentration. Domestic manufacturers are still in the catching-up stage in terms of brand influence, product consistency and stability.

Market Outlook

As the requirements for sensor performance in aerospace, national defense, nuclear power, deep-sea exploration and other fields continue to increase, quartz sensors will become the preferred solution for key application links due to their stability and response speed. At the same time, with the development of material science, micro-machining technology and packaging technology, quartz sensors will gradually move towards miniaturization and intelligence, and can be combined with MEMS structures, wireless communications and edge computing to form a new generation of 'smart sensor' solutions.

LP Information, Inc. (LPI) ' newest research report, the “Quartz Pressure Sensor Industry Forecast” looks at past sales and reviews total world Quartz Pressure Sensor sales in 2024, providing a comprehensive analysis by region and market sector of projected Quartz Pressure Sensor sales for 2025 through 2031. With Quartz Pressure Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Quartz Pressure Sensor industry.

This Insight Report provides a comprehensive analysis of the global Quartz Pressure Sensor 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 Quartz Pressure Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Quartz Pressure Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Quartz Pressure Sensor 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 Quartz Pressure Sensor.

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

Segmentation by Type:

Piezoresistive Type

Piezoelectric Type

Segmentation by Application:

Oil & Gas

Drilling Field

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.

Kistler

ChampionX

PCB Piezotronics

Seiko Epson

Phase Sensors

Shanghai Shensheng Electric Equipment

Shaanxi Ericco Inertial Technology

Beijing Leno Sensor Technology

YMC Piezotronics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Quartz Pressure Sensor market?

What factors are driving Quartz Pressure Sensor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Quartz Pressure Sensor market opportunities vary by end market size?

How does Quartz Pressure Sensor 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 Quartz Pressure Sensor Annual Sales 2020-2031
 - 2.1.2 World Current & Future Analysis for Quartz Pressure Sensor by Geographic Region, 2020, 2024 & 2031
 - 2.1.3 World Current & Future Analysis for Quartz Pressure Sensor by Country/Region, 2020, 2024 & 2031
- 2.2 Quartz Pressure Sensor Segment by Type
 - 2.2.1 Piezoresistive Type
 - 2.2.2 Piezoelectric Type
- 2.3 Quartz Pressure Sensor Sales by Type
 - 2.3.1 Global Quartz Pressure Sensor Sales Market Share by Type (2020-2025)
 - 2.3.2 Global Quartz Pressure Sensor Revenue and Market Share by Type (2020-2025)
 - 2.3.3 Global Quartz Pressure Sensor Sale Price by Type (2020-2025)
- 2.4 Quartz Pressure Sensor Segment by Application
 - 2.4.1 Oil & Gas
 - 2.4.2 Drilling Field
 - 2.4.3 Others
- 2.5 Quartz Pressure Sensor Sales by Application
 - 2.5.1 Global Quartz Pressure Sensor Sale Market Share by Application (2020-2025)
 - 2.5.2 Global Quartz Pressure Sensor Revenue and Market Share by Application (2020-2025)
 - 2.5.3 Global Quartz Pressure Sensor Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Quartz Pressure Sensor Breakdown Data by Company

3.1.1 Global Quartz Pressure Sensor Annual Sales by Company (2020-2025)

3.1.2 Global Quartz Pressure Sensor Sales Market Share by Company (2020-2025)

3.2 Global Quartz Pressure Sensor Annual Revenue by Company (2020-2025)

3.2.1 Global Quartz Pressure Sensor Revenue by Company (2020-2025)

3.2.2 Global Quartz Pressure Sensor Revenue Market Share by Company (2020-2025)

3.3 Global Quartz Pressure Sensor Sale Price by Company

3.4 Key Manufacturers Quartz Pressure Sensor Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Quartz Pressure Sensor Product Location Distribution

3.4.2 Players Quartz Pressure Sensor Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR QUARTZ PRESSURE SENSOR BY GEOGRAPHIC REGION

4.1 World Historic Quartz Pressure Sensor Market Size by Geographic Region (2020-2025)

4.1.1 Global Quartz Pressure Sensor Annual Sales by Geographic Region (2020-2025)

4.1.2 Global Quartz Pressure Sensor Annual Revenue by Geographic Region (2020-2025)

4.2 World Historic Quartz Pressure Sensor Market Size by Country/Region (2020-2025)

4.2.1 Global Quartz Pressure Sensor Annual Sales by Country/Region (2020-2025)

4.2.2 Global Quartz Pressure Sensor Annual Revenue by Country/Region (2020-2025)

4.3 Americas Quartz Pressure Sensor Sales Growth

4.4 APAC Quartz Pressure Sensor Sales Growth

4.5 Europe Quartz Pressure Sensor Sales Growth

4.6 Middle East & Africa Quartz Pressure Sensor Sales Growth

5 AMERICAS

5.1 Americas Quartz Pressure Sensor Sales by Country

5.1.1 Americas Quartz Pressure Sensor Sales by Country (2020-2025)

5.1.2 Americas Quartz Pressure Sensor Revenue by Country (2020-2025)

5.2 Americas Quartz Pressure Sensor Sales by Type (2020-2025)

5.3 Americas Quartz Pressure Sensor Sales by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Quartz Pressure Sensor Sales by Region

6.1.1 APAC Quartz Pressure Sensor Sales by Region (2020-2025)

6.1.2 APAC Quartz Pressure Sensor Revenue by Region (2020-2025)

6.2 APAC Quartz Pressure Sensor Sales by Type (2020-2025)

6.3 APAC Quartz Pressure Sensor Sales by Application (2020-2025)

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 Quartz Pressure Sensor by Country

7.1.1 Europe Quartz Pressure Sensor Sales by Country (2020-2025)

7.1.2 Europe Quartz Pressure Sensor Revenue by Country (2020-2025)

7.2 Europe Quartz Pressure Sensor Sales by Type (2020-2025)

7.3 Europe Quartz Pressure Sensor Sales by Application (2020-2025)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Quartz Pressure Sensor by Country

8.1.1 Middle East & Africa Quartz Pressure Sensor Sales by Country (2020-2025)

8.1.2 Middle East & Africa Quartz Pressure Sensor Revenue by Country (2020-2025)

8.2 Middle East & Africa Quartz Pressure Sensor Sales by Type (2020-2025)

8.3 Middle East & Africa Quartz Pressure Sensor Sales by Application (2020-2025)

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 Quartz Pressure Sensor

10.3 Manufacturing Process Analysis of Quartz Pressure Sensor

10.4 Industry Chain Structure of Quartz Pressure Sensor

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Quartz Pressure Sensor Distributors

11.3 Quartz Pressure Sensor Customer

12 WORLD FORECAST REVIEW FOR QUARTZ PRESSURE SENSOR BY GEOGRAPHIC REGION

12.1 Global Quartz Pressure Sensor Market Size Forecast by Region

12.1.1 Global Quartz Pressure Sensor Forecast by Region (2026-2031)

12.1.2 Global Quartz Pressure Sensor Annual Revenue Forecast by Region

(2026-2031)

12.2 Americas Forecast by Country (2026-2031)

12.3 APAC Forecast by Region (2026-2031)

12.4 Europe Forecast by Country (2026-2031)

12.5 Middle East & Africa Forecast by Country (2026-2031)

12.6 Global Quartz Pressure Sensor Forecast by Type (2026-2031)

12.7 Global Quartz Pressure Sensor Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 Kistler

13.1.1 Kistler Company Information

13.1.2 Kistler Quartz Pressure Sensor Product Portfolios and Specifications

13.1.3 Kistler Quartz Pressure Sensor Sales, Revenue, Price and Gross Margin

(2020-2025)

13.1.4 Kistler Main Business Overview

13.1.5 Kistler Latest Developments

13.2 ChampionX

13.2.1 ChampionX Company Information

13.2.2 ChampionX Quartz Pressure Sensor Product Portfolios and Specifications

13.2.3 ChampionX Quartz Pressure Sensor Sales, Revenue, Price and Gross Margin

(2020-2025)

13.2.4 ChampionX Main Business Overview

13.2.5 ChampionX Latest Developments

13.3 PCB Piezotronics

13.3.1 PCB Piezotronics Company Information

13.3.2 PCB Piezotronics Quartz Pressure Sensor Product Portfolios and Specifications

13.3.3 PCB Piezotronics Quartz Pressure Sensor Sales, Revenue, Price and Gross

Margin (2020-2025)

13.3.4 PCB Piezotronics Main Business Overview

13.3.5 PCB Piezotronics Latest Developments

13.4 Seiko Epson

13.4.1 Seiko Epson Company Information

13.4.2 Seiko Epson Quartz Pressure Sensor Product Portfolios and Specifications

13.4.3 Seiko Epson Quartz Pressure Sensor Sales, Revenue, Price and Gross Margin

(2020-2025)

13.4.4 Seiko Epson Main Business Overview

13.4.5 Seiko Epson Latest Developments

13.5 Phase Sensors

- 13.5.1 Phase Sensors Company Information
- 13.5.2 Phase Sensors Quartz Pressure Sensor Product Portfolios and Specifications
- 13.5.3 Phase Sensors Quartz Pressure Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
- 13.5.4 Phase Sensors Main Business Overview
- 13.5.5 Phase Sensors Latest Developments
- 13.6 Shanghai Shensheng Electric Equipment
 - 13.6.1 Shanghai Shensheng Electric Equipment Company Information
 - 13.6.2 Shanghai Shensheng Electric Equipment Quartz Pressure Sensor Product Portfolios and Specifications
 - 13.6.3 Shanghai Shensheng Electric Equipment Quartz Pressure Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.6.4 Shanghai Shensheng Electric Equipment Main Business Overview
 - 13.6.5 Shanghai Shensheng Electric Equipment Latest Developments
- 13.7 Shaanxi Ericco Inertial Technology
 - 13.7.1 Shaanxi Ericco Inertial Technology Company Information
 - 13.7.2 Shaanxi Ericco Inertial Technology Quartz Pressure Sensor Product Portfolios and Specifications
 - 13.7.3 Shaanxi Ericco Inertial Technology Quartz Pressure Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.7.4 Shaanxi Ericco Inertial Technology Main Business Overview
 - 13.7.5 Shaanxi Ericco Inertial Technology Latest Developments
- 13.8 Beijing Leno Sensor Technology
 - 13.8.1 Beijing Leno Sensor Technology Company Information
 - 13.8.2 Beijing Leno Sensor Technology Quartz Pressure Sensor Product Portfolios and Specifications
 - 13.8.3 Beijing Leno Sensor Technology Quartz Pressure Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.8.4 Beijing Leno Sensor Technology Main Business Overview
 - 13.8.5 Beijing Leno Sensor Technology Latest Developments
- 13.9 YMC Piezotronics
 - 13.9.1 YMC Piezotronics Company Information
 - 13.9.2 YMC Piezotronics Quartz Pressure Sensor Product Portfolios and Specifications
 - 13.9.3 YMC Piezotronics Quartz Pressure Sensor Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.9.4 YMC Piezotronics Main Business Overview
 - 13.9.5 YMC Piezotronics Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Quartz Pressure Sensor Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Table 2. Quartz Pressure Sensor Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)

Table 3. Major Players of Piezoresistive Type

Table 4. Major Players of Piezoelectric Type

Table 5. Global Quartz Pressure Sensor Sales by Type (2020-2025) & (K Units)

Table 6. Global Quartz Pressure Sensor Sales Market Share by Type (2020-2025)

Table 7. Global Quartz Pressure Sensor Revenue by Type (2020-2025) & (\$ million)

Table 8. Global Quartz Pressure Sensor Revenue Market Share by Type (2020-2025)

Table 9. Global Quartz Pressure Sensor Sale Price by Type (2020-2025) & (US\$/Unit)

Table 10. Global Quartz Pressure Sensor Sale by Application (2020-2025) & (K Units)

Table 11. Global Quartz Pressure Sensor Sale Market Share by Application (2020-2025)

Table 12. Global Quartz Pressure Sensor Revenue by Application (2020-2025) & (\$ million)

Table 13. Global Quartz Pressure Sensor Revenue Market Share by Application (2020-2025)

Table 14. Global Quartz Pressure Sensor Sale Price by Application (2020-2025) & (US\$/Unit)

Table 15. Global Quartz Pressure Sensor Sales by Company (2020-2025) & (K Units)

Table 16. Global Quartz Pressure Sensor Sales Market Share by Company (2020-2025)

Table 17. Global Quartz Pressure Sensor Revenue by Company (2020-2025) & (\$ millions)

Table 18. Global Quartz Pressure Sensor Revenue Market Share by Company (2020-2025)

Table 19. Global Quartz Pressure Sensor Sale Price by Company (2020-2025) & (US\$/Unit)

Table 20. Key Manufacturers Quartz Pressure Sensor Producing Area Distribution and Sales Area

Table 21. Players Quartz Pressure Sensor Products Offered

Table 22. Quartz Pressure Sensor Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

Table 23. New Products and Potential Entrants

Table 24. Market M&A Activity & Strategy

Table 25. Global Quartz Pressure Sensor Sales by Geographic Region (2020-2025) & (K Units)

Table 26. Global Quartz Pressure Sensor Sales Market Share Geographic Region (2020-2025)

Table 27. Global Quartz Pressure Sensor Revenue by Geographic Region (2020-2025) & (\$ millions)

Table 28. Global Quartz Pressure Sensor Revenue Market Share by Geographic Region (2020-2025)

Table 29. Global Quartz Pressure Sensor Sales by Country/Region (2020-2025) & (K Units)

Table 30. Global Quartz Pressure Sensor Sales Market Share by Country/Region (2020-2025)

Table 31. Global Quartz Pressure Sensor Revenue by Country/Region (2020-2025) & (\$ millions)

Table 32. Global Quartz Pressure Sensor Revenue Market Share by Country/Region (2020-2025)

Table 33. Americas Quartz Pressure Sensor Sales by Country (2020-2025) & (K Units)

Table 34. Americas Quartz Pressure Sensor Sales Market Share by Country (2020-2025)

Table 35. Americas Quartz Pressure Sensor Revenue by Country (2020-2025) & (\$ millions)

Table 36. Americas Quartz Pressure Sensor Sales by Type (2020-2025) & (K Units)

Table 37. Americas Quartz Pressure Sensor Sales by Application (2020-2025) & (K Units)

Table 38. APAC Quartz Pressure Sensor Sales by Region (2020-2025) & (K Units)

Table 39. APAC Quartz Pressure Sensor Sales Market Share by Region (2020-2025)

Table 40. APAC Quartz Pressure Sensor Revenue by Region (2020-2025) & (\$ millions)

Table 41. APAC Quartz Pressure Sensor Sales by Type (2020-2025) & (K Units)

Table 42. APAC Quartz Pressure Sensor Sales by Application (2020-2025) & (K Units)

Table 43. Europe Quartz Pressure Sensor Sales by Country (2020-2025) & (K Units)

Table 44. Europe Quartz Pressure Sensor Revenue by Country (2020-2025) & (\$ millions)

Table 45. Europe Quartz Pressure Sensor Sales by Type (2020-2025) & (K Units)

Table 46. Europe Quartz Pressure Sensor Sales by Application (2020-2025) & (K Units)

Table 47. Middle East & Africa Quartz Pressure Sensor Sales by Country (2020-2025) & (K Units)

Table 48. Middle East & Africa Quartz Pressure Sensor Revenue Market Share by

Country (2020-2025)

Table 49. Middle East & Africa Quartz Pressure Sensor Sales by Type (2020-2025) & (K Units)

Table 50. Middle East & Africa Quartz Pressure Sensor Sales by Application (2020-2025) & (K Units)

Table 51. Key Market Drivers & Growth Opportunities of Quartz Pressure Sensor

Table 52. Key Market Challenges & Risks of Quartz Pressure Sensor

Table 53. Key Industry Trends of Quartz Pressure Sensor

Table 54. Quartz Pressure Sensor Raw Material

Table 55. Key Suppliers of Raw Materials

Table 56. Quartz Pressure Sensor Distributors List

Table 57. Quartz Pressure Sensor Customer List

Table 58. Global Quartz Pressure Sensor Sales Forecast by Region (2026-2031) & (K Units)

Table 59. Global Quartz Pressure Sensor Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 60. Americas Quartz Pressure Sensor Sales Forecast by Country (2026-2031) & (K Units)

Table 61. Americas Quartz Pressure Sensor Annual Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 62. APAC Quartz Pressure Sensor Sales Forecast by Region (2026-2031) & (K Units)

Table 63. APAC Quartz Pressure Sensor Annual Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 64. Europe Quartz Pressure Sensor Sales Forecast by Country (2026-2031) & (K Units)

Table 65. Europe Quartz Pressure Sensor Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 66. Middle East & Africa Quartz Pressure Sensor Sales Forecast by Country (2026-2031) & (K Units)

Table 67. Middle East & Africa Quartz Pressure Sensor Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 68. Global Quartz Pressure Sensor Sales Forecast by Type (2026-2031) & (K Units)

Table 69. Global Quartz Pressure Sensor Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 70. Global Quartz Pressure Sensor Sales Forecast by Application (2026-2031) & (K Units)

Table 71. Global Quartz Pressure Sensor Revenue Forecast by Application

(2026-2031) & (\$ millions)

Table 72. Kistler Basic Information, Quartz Pressure Sensor Manufacturing Base, Sales Area and Its Competitors

Table 73. Kistler Quartz Pressure Sensor Product Portfolios and Specifications

Table 74. Kistler Quartz Pressure Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 75. Kistler Main Business

Table 76. Kistler Latest Developments

Table 77. ChampionX Basic Information, Quartz Pressure Sensor Manufacturing Base, Sales Area and Its Competitors

Table 78. ChampionX Quartz Pressure Sensor Product Portfolios and Specifications

Table 79. ChampionX Quartz Pressure Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 80. ChampionX Main Business

Table 81. ChampionX Latest Developments

Table 82. PCB Piezotronics Basic Information, Quartz Pressure Sensor Manufacturing Base, Sales Area and Its Competitors

Table 83. PCB Piezotronics Quartz Pressure Sensor Product Portfolios and Specifications

Table 84. PCB Piezotronics Quartz Pressure Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 85. PCB Piezotronics Main Business

Table 86. PCB Piezotronics Latest Developments

Table 87. Seiko Epson Basic Information, Quartz Pressure Sensor Manufacturing Base, Sales Area and Its Competitors

Table 88. Seiko Epson Quartz Pressure Sensor Product Portfolios and Specifications

Table 89. Seiko Epson Quartz Pressure Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 90. Seiko Epson Main Business

Table 91. Seiko Epson Latest Developments

Table 92. Phase Sensors Basic Information, Quartz Pressure Sensor Manufacturing Base, Sales Area and Its Competitors

Table 93. Phase Sensors Quartz Pressure Sensor Product Portfolios and Specifications

Table 94. Phase Sensors Quartz Pressure Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 95. Phase Sensors Main Business

Table 96. Phase Sensors Latest Developments

Table 97. Shanghai Shensheng Electric Equipment Basic Information, Quartz Pressure Sensor Manufacturing Base, Sales Area and Its Competitors

Table 98. Shanghai Shensheng Electric Equipment Quartz Pressure Sensor Product Portfolios and Specifications

Table 99. Shanghai Shensheng Electric Equipment Quartz Pressure Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 100. Shanghai Shensheng Electric Equipment Main Business

Table 101. Shanghai Shensheng Electric Equipment Latest Developments

Table 102. Shaanxi Ericco Inertial Technology Basic Information, Quartz Pressure Sensor Manufacturing Base, Sales Area and Its Competitors

Table 103. Shaanxi Ericco Inertial Technology Quartz Pressure Sensor Product Portfolios and Specifications

Table 104. Shaanxi Ericco Inertial Technology Quartz Pressure Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 105. Shaanxi Ericco Inertial Technology Main Business

Table 106. Shaanxi Ericco Inertial Technology Latest Developments

Table 107. Beijing Leno Sensor Technology Basic Information, Quartz Pressure Sensor Manufacturing Base, Sales Area and Its Competitors

Table 108. Beijing Leno Sensor Technology Quartz Pressure Sensor Product Portfolios and Specifications

Table 109. Beijing Leno Sensor Technology Quartz Pressure Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 110. Beijing Leno Sensor Technology Main Business

Table 111. Beijing Leno Sensor Technology Latest Developments

Table 112. YMC Piezotronics Basic Information, Quartz Pressure Sensor Manufacturing Base, Sales Area and Its Competitors

Table 113. YMC Piezotronics Quartz Pressure Sensor Product Portfolios and Specifications

Table 114. YMC Piezotronics Quartz Pressure Sensor Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2020-2025)

Table 115. YMC Piezotronics Main Business

Table 116. YMC Piezotronics Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Quartz Pressure Sensor
- Figure 2. Quartz Pressure Sensor Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Quartz Pressure Sensor Sales Growth Rate 2020-2031 (K Units)
- Figure 7. Global Quartz Pressure Sensor Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. Quartz Pressure Sensor Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. Quartz Pressure Sensor Sales Market Share by Country/Region (2024)
- Figure 10. Quartz Pressure Sensor Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of Piezoresistive Type
- Figure 12. Product Picture of Piezoelectric Type
- Figure 13. Global Quartz Pressure Sensor Sales Market Share by Type in 2025
- Figure 14. Global Quartz Pressure Sensor Revenue Market Share by Type (2020-2025)
- Figure 15. Quartz Pressure Sensor Consumed in Oil & Gas
- Figure 16. Global Quartz Pressure Sensor Market: Oil & Gas (2020-2025) & (K Units)
- Figure 17. Quartz Pressure Sensor Consumed in Drilling Field
- Figure 18. Global Quartz Pressure Sensor Market: Drilling Field (2020-2025) & (K Units)
- Figure 19. Quartz Pressure Sensor Consumed in Others
- Figure 20. Global Quartz Pressure Sensor Market: Others (2020-2025) & (K Units)
- Figure 21. Global Quartz Pressure Sensor Sale Market Share by Application (2024)
- Figure 22. Global Quartz Pressure Sensor Revenue Market Share by Application in 2025
- Figure 23. Quartz Pressure Sensor Sales by Company in 2025 (K Units)
- Figure 24. Global Quartz Pressure Sensor Sales Market Share by Company in 2025
- Figure 25. Quartz Pressure Sensor Revenue by Company in 2025 (\$ millions)
- Figure 26. Global Quartz Pressure Sensor Revenue Market Share by Company in 2025
- Figure 27. Global Quartz Pressure Sensor Sales Market Share by Geographic Region (2020-2025)
- Figure 28. Global Quartz Pressure Sensor Revenue Market Share by Geographic Region in 2025
- Figure 29. Americas Quartz Pressure Sensor Sales 2020-2025 (K Units)
- Figure 30. Americas Quartz Pressure Sensor Revenue 2020-2025 (\$ millions)

Figure 31. APAC Quartz Pressure Sensor Sales 2020-2025 (K Units)

Figure 32. APAC Quartz Pressure Sensor Revenue 2020-2025 (\$ millions)

Figure 33. Europe Quartz Pressure Sensor Sales 2020-2025 (K Units)

Figure 34. Europe Quartz Pressure Sensor Revenue 2020-2025 (\$ millions)

Figure 35. Middle East & Africa Quartz Pressure Sensor Sales 2020-2025 (K Units)

Figure 36. Middle East & Africa Quartz Pressure Sensor Revenue 2020-2025 (\$ millions)

Figure 37. Americas Quartz Pressure Sensor Sales Market Share by Country in 2025

Figure 38. Americas Quartz Pressure Sensor Revenue Market Share by Country (2020-2025)

Figure 39. Americas Quartz Pressure Sensor Sales Market Share by Type (2020-2025)

Figure 40. Americas Quartz Pressure Sensor Sales Market Share by Application (2020-2025)

Figure 41. United States Quartz Pressure Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 42. Canada Quartz Pressure Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 43. Mexico Quartz Pressure Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 44. Brazil Quartz Pressure Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 45. APAC Quartz Pressure Sensor Sales Market Share by Region in 2025

Figure 46. APAC Quartz Pressure Sensor Revenue Market Share by Region (2020-2025)

Figure 47. APAC Quartz Pressure Sensor Sales Market Share by Type (2020-2025)

Figure 48. APAC Quartz Pressure Sensor Sales Market Share by Application (2020-2025)

Figure 49. China Quartz Pressure Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 50. Japan Quartz Pressure Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 51. South Korea Quartz Pressure Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 52. Southeast Asia Quartz Pressure Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 53. India Quartz Pressure Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 54. Australia Quartz Pressure Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 55. China Taiwan Quartz Pressure Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 56. Europe Quartz Pressure Sensor Sales Market Share by Country in 2025

Figure 57. Europe Quartz Pressure Sensor Revenue Market Share by Country (2020-2025)

Figure 58. Europe Quartz Pressure Sensor Sales Market Share by Type (2020-2025)

Figure 59. Europe Quartz Pressure Sensor Sales Market Share by Application

(2020-2025)

Figure 60. Germany Quartz Pressure Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 61. France Quartz Pressure Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 62. UK Quartz Pressure Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 63. Italy Quartz Pressure Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 64. Russia Quartz Pressure Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 65. Middle East & Africa Quartz Pressure Sensor Sales Market Share by Country
(2020-2025)

Figure 66. Middle East & Africa Quartz Pressure Sensor Sales Market Share by Type
(2020-2025)

Figure 67. Middle East & Africa Quartz Pressure Sensor Sales Market Share by
Application (2020-2025)

Figure 68. Egypt Quartz Pressure Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 69. South Africa Quartz Pressure Sensor Revenue Growth 2020-2025 (\$
millions)

Figure 70. Israel Quartz Pressure Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 71. Turkey Quartz Pressure Sensor Revenue Growth 2020-2025 (\$ millions)

Figure 72. GCC Countries Quartz Pressure Sensor Revenue Growth 2020-2025 (\$
millions)

Figure 73. Manufacturing Cost Structure Analysis of Quartz Pressure Sensor in 2025

Figure 74. Manufacturing Process Analysis of Quartz Pressure Sensor

Figure 75. Industry Chain Structure of Quartz Pressure Sensor

Figure 76. Channels of Distribution

Figure 77. Global Quartz Pressure Sensor Sales Market Forecast by Region
(2026-2031)

Figure 78. Global Quartz Pressure Sensor Revenue Market Share Forecast by Region
(2026-2031)

Figure 79. Global Quartz Pressure Sensor Sales Market Share Forecast by Type
(2026-2031)

Figure 80. Global Quartz Pressure Sensor Revenue Market Share Forecast by Type
(2026-2031)

Figure 81. Global Quartz Pressure Sensor Sales Market Share Forecast by Application
(2026-2031)

Figure 82. Global Quartz Pressure Sensor Revenue Market Share Forecast by
Application (2026-2031)

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