

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

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Abstracts

The global Automotive Fuel Pressure Sensor market size is expected to reach \$ 1846 million by 2032, rising at a market growth of 4.4% CAGR during the forecast period (2026-2032).

An automotive fuel pressure sensor is a pressure-to-electrical transducer installed in gasoline direct injection, diesel common-rail. It uses MEMS/silicon diaphragm, thin-film strain, microfused, or semiconductor strain-gauge sensing elements, together with metal diaphragms, ASIC signal conditioning, automotive connectors, and calibration processes, to feed low-pressure fuel-line, medium-pressure fuel-line, or high-pressure rail/gas-rail pressure back to the ECU for closed-loop control of the fuel pump, injectors, rail pressure, and emissions. The upstream chain includes pressure chips, ASICs, metal housings, ceramic/glass substrates, connectors, and packaging materials; the midstream covers sensor assembly, welding, potting, calibration, and testing; downstream customers include fuel-injection Tier 1 suppliers, engine makers, OEMs, commercial/off-road equipment makers, and aftermarket channels. In 2025, typical OE ex-factory ASP is about US\$5?25/unit, high-pressure diesel/commercial-vehicle or pressure-temperature integrated sensors are about US\$15?45/unit, and aftermarket retail prices are commonly US\$30?120/unit; mature manufacturers usually achieve 25?40% gross margin, with higher margins in low-volume aftermarket niches and lower margins in pure contract manufacturing.

As an essential component of the automotive fuel supply system, automotive fuel pressure sensors monitor pipeline oil pressure in real time to ensure stable engine operation and complete fuel combustion. They are widely applied to traditional fuel vehicles and hybrid vehicles, covering global vehicle manufacturing and after-sales maintenance, and serve as fundamental parts for automakers to realize power

management and emission optimization. Technological upgrading and environmental policies of the global automotive industry act as core driving forces. Stricter regulations on vehicle exhaust emissions and energy consumption worldwide push automakers to upgrade fuel supply systems and promote sensors to evolve towards higher precision and stability. The growing global vehicle parc keeps driving steady demand from new vehicle assembly and replacement for aging cars, as fuel vehicles and hybrid models still dominate the market. Meanwhile, the trend of automotive electronization and integration advances continuously. Upgraded vehicle electronic control systems set higher standards for signal accuracy and environmental adaptability of sensors, driving continuous functional improvement. The global layout of automotive supply chains and the booming auto industry in emerging markets further expand the sales coverage and market potential of the products.

Despite growing market demand, the industry faces multiple challenges. High-end sensing chips, precision sensing elements and specialized oil-resistant and high-temperature resistant packaging technologies are monopolized by a handful of international enterprises, forming solid technical barriers. New entrants struggle to make breakthroughs in core technologies and can only focus on the mid-to-low-end market. General-purpose sensors suffer from severe homogenization. Cut-throat low-price competition in the low-end segment squeezes profit margins and reduces manufacturers' willingness for long-term research and development. Safety standards and certification rules for auto parts vary greatly across regions. Enterprises have to adjust product design and processes repeatedly for cross-border business, which raises compliance costs and extends delivery cycles. Complicated driving conditions including continuous vibration, extreme temperatures and fuel corrosion put strict requirements on product reliability, increasing the difficulty of production and quality control. In addition, the rapid popularization of new energy vehicles gradually curbs the demand for parts matching fuel cars and limits the overall growth potential. All these factors jointly restrict the high-quality and balanced development of the global automotive fuel pressure sensor industry.

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

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

Highlights and key features of the study

Global Automotive Fuel Pressure Sensor total production and demand, 2021-2032, (K Units)

Global Automotive Fuel Pressure Sensor total production value, 2021-2032, (USD Million)

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

Global Automotive Fuel Pressure Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

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

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

Global Automotive Fuel Pressure Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive Fuel Pressure Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive Fuel 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 Robert Bosch, DENSO, Sensata Technologies, Continental, PHINIA, TE Connectivity, Ampron, Niterra, Holley, Walker Products, 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 Automotive Fuel Pressure Sensor market

Detailed Segmentation:

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

Global Automotive Fuel Pressure Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Fuel Pressure Sensor Market, Segmentation by Type:

Low Voltage Pull-up Type

Low Voltage Pull-down Type

Global Automotive Fuel Pressure Sensor Market, Segmentation by Fuel:

Gasoline

Diesel

General Purpose

Global Automotive Fuel Pressure Sensor Market, Segmentation by Channel:

OEM

After-Sales Replacement

Global Automotive Fuel Pressure Sensor Market, Segmentation by Application:

Passenger Vehicles

Commercial Vehicles

Companies Profiled:

Robert Bosch

DENSO

Sensata Technologies

Continental

PHINIA

TE Connectivity

Ampron

Niterra

Holley

Walker Products

Wotian

Hunan Firstrate Sensor

Hitachi

Nippon

HKS

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Automotive Fuel Pressure Sensor Production Value by Manufacturer (2021-2026)
- 3.2 World Automotive Fuel Pressure Sensor Production by Manufacturer (2021-2026)
- 3.3 World Automotive Fuel Pressure Sensor Average Price by Manufacturer (2021-2026)
- 3.4 Automotive Fuel Pressure Sensor Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Automotive Fuel Pressure Sensor Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Automotive Fuel Pressure Sensor in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Automotive Fuel Pressure Sensor in 2025
- 3.6 Automotive Fuel Pressure Sensor Market: Overall Company Footprint Analysis
 - 3.6.1 Automotive Fuel Pressure Sensor Market: Region Footprint
 - 3.6.2 Automotive Fuel Pressure Sensor Market: Company Product Type Footprint
 - 3.6.3 Automotive Fuel 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: Automotive Fuel Pressure Sensor Production Value Comparison
 - 4.1.1 United States VS China: Automotive Fuel Pressure Sensor Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Automotive Fuel Pressure Sensor Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Automotive Fuel Pressure Sensor Production Comparison
 - 4.2.1 United States VS China: Automotive Fuel Pressure Sensor Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Automotive Fuel Pressure Sensor Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Automotive Fuel Pressure Sensor Consumption Comparison

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

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

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

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

4.4.2 United States Based Manufacturers Automotive Fuel Pressure Sensor Production Value (2021-2026)

4.4.3 United States Based Manufacturers Automotive Fuel Pressure Sensor Production (2021-2026)

4.5 China Based Automotive Fuel Pressure Sensor Manufacturers and Market Share

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

4.5.2 China Based Manufacturers Automotive Fuel Pressure Sensor Production Value (2021-2026)

4.5.3 China Based Manufacturers Automotive Fuel Pressure Sensor Production (2021-2026)

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

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

4.6.2 Rest of World Based Manufacturers Automotive Fuel Pressure Sensor Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Automotive Fuel Pressure Sensor Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Automotive Fuel Pressure Sensor Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Low Voltage Pull-up Type

5.2.2 Low Voltage Pull-down Type

5.3 Market Segment by Type

5.3.1 World Automotive Fuel Pressure Sensor Production by Type (2021-2032)

5.3.2 World Automotive Fuel Pressure Sensor Production Value by Type (2021-2032)

5.3.3 World Automotive Fuel Pressure Sensor Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY FUEL

6.1 World Automotive Fuel Pressure Sensor Market Size Overview by Fuel: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Fuel

6.2.1 Gasoline

6.2.2 Diesel

6.2.3 General Purpose

6.3 Market Segment by Fuel

6.3.1 World Automotive Fuel Pressure Sensor Production by Fuel (2021-2032)

6.3.2 World Automotive Fuel Pressure Sensor Production Value by Fuel (2021-2032)

6.3.3 World Automotive Fuel Pressure Sensor Average Price by Fuel (2021-2032)

7 MARKET ANALYSIS BY CHANNEL

7.1 World Automotive Fuel Pressure Sensor Market Size Overview by Channel: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Channel

7.2.1 OEM

7.2.2 After-Sales Replacement

7.3 Market Segment by Channel

7.3.1 World Automotive Fuel Pressure Sensor Production by Channel (2021-2032)

7.3.2 World Automotive Fuel Pressure Sensor Production Value by Channel (2021-2032)

7.3.3 World Automotive Fuel Pressure Sensor Average Price by Channel (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Automotive Fuel Pressure Sensor Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Passenger Vehicles

8.2.2 Commercial Vehicles

8.3 Market Segment by Application

8.3.1 World Automotive Fuel Pressure Sensor Production by Application (2021-2032)

8.3.2 World Automotive Fuel Pressure Sensor Production Value by Application (2021-2032)

8.3.3 World Automotive Fuel Pressure Sensor Average Price by Application

(2021-2032)

9 COMPANY PROFILES

9.1 Robert Bosch

9.1.1 Robert Bosch Details

9.1.2 Robert Bosch Major Business

9.1.3 Robert Bosch Automotive Fuel Pressure Sensor Product and Services

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

9.1.5 Robert Bosch Recent Developments/Updates

9.1.6 Robert Bosch Competitive Strengths & Weaknesses

9.2 DENSO

9.2.1 DENSO Details

9.2.2 DENSO Major Business

9.2.3 DENSO Automotive Fuel Pressure Sensor Product and Services

9.2.4 DENSO Automotive Fuel Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 DENSO Recent Developments/Updates

9.2.6 DENSO Competitive Strengths & Weaknesses

9.3 Sensata Technologies

9.3.1 Sensata Technologies Details

9.3.2 Sensata Technologies Major Business

9.3.3 Sensata Technologies Automotive Fuel Pressure Sensor Product and Services

9.3.4 Sensata Technologies Automotive Fuel Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Sensata Technologies Recent Developments/Updates

9.3.6 Sensata Technologies Competitive Strengths & Weaknesses

9.4 Continental

9.4.1 Continental Details

9.4.2 Continental Major Business

9.4.3 Continental Automotive Fuel Pressure Sensor Product and Services

9.4.4 Continental Automotive Fuel Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Continental Recent Developments/Updates

9.4.6 Continental Competitive Strengths & Weaknesses

9.5 PHINIA

9.5.1 PHINIA Details

9.5.2 PHINIA Major Business

- 9.5.3 PHINIA Automotive Fuel Pressure Sensor Product and Services
- 9.5.4 PHINIA Automotive Fuel Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.5.5 PHINIA Recent Developments/Updates
- 9.5.6 PHINIA Competitive Strengths & Weaknesses
- 9.6 TE Connectivity
 - 9.6.1 TE Connectivity Details
 - 9.6.2 TE Connectivity Major Business
 - 9.6.3 TE Connectivity Automotive Fuel Pressure Sensor Product and Services
 - 9.6.4 TE Connectivity Automotive Fuel Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 TE Connectivity Recent Developments/Updates
 - 9.6.6 TE Connectivity Competitive Strengths & Weaknesses
- 9.7 Ampron
 - 9.7.1 Ampron Details
 - 9.7.2 Ampron Major Business
 - 9.7.3 Ampron Automotive Fuel Pressure Sensor Product and Services
 - 9.7.4 Ampron Automotive Fuel Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Ampron Recent Developments/Updates
 - 9.7.6 Ampron Competitive Strengths & Weaknesses
- 9.8 Niterra
 - 9.8.1 Niterra Details
 - 9.8.2 Niterra Major Business
 - 9.8.3 Niterra Automotive Fuel Pressure Sensor Product and Services
 - 9.8.4 Niterra Automotive Fuel Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Niterra Recent Developments/Updates
 - 9.8.6 Niterra Competitive Strengths & Weaknesses
- 9.9 Holley
 - 9.9.1 Holley Details
 - 9.9.2 Holley Major Business
 - 9.9.3 Holley Automotive Fuel Pressure Sensor Product and Services
 - 9.9.4 Holley Automotive Fuel Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Holley Recent Developments/Updates
 - 9.9.6 Holley Competitive Strengths & Weaknesses
- 9.10 Walker Products
 - 9.10.1 Walker Products Details

- 9.10.2 Walker Products Major Business
- 9.10.3 Walker Products Automotive Fuel Pressure Sensor Product and Services
- 9.10.4 Walker Products Automotive Fuel Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.10.5 Walker Products Recent Developments/Updates
- 9.10.6 Walker Products Competitive Strengths & Weaknesses
- 9.11 Wotian
 - 9.11.1 Wotian Details
 - 9.11.2 Wotian Major Business
 - 9.11.3 Wotian Automotive Fuel Pressure Sensor Product and Services
 - 9.11.4 Wotian Automotive Fuel Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Wotian Recent Developments/Updates
 - 9.11.6 Wotian Competitive Strengths & Weaknesses
- 9.12 Hunan Firstrate Sensor
 - 9.12.1 Hunan Firstrate Sensor Details
 - 9.12.2 Hunan Firstrate Sensor Major Business
 - 9.12.3 Hunan Firstrate Sensor Automotive Fuel Pressure Sensor Product and Services
 - 9.12.4 Hunan Firstrate Sensor Automotive Fuel Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Hunan Firstrate Sensor Recent Developments/Updates
 - 9.12.6 Hunan Firstrate Sensor Competitive Strengths & Weaknesses
- 9.13 Hitachi
 - 9.13.1 Hitachi Details
 - 9.13.2 Hitachi Major Business
 - 9.13.3 Hitachi Automotive Fuel Pressure Sensor Product and Services
 - 9.13.4 Hitachi Automotive Fuel Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Hitachi Recent Developments/Updates
 - 9.13.6 Hitachi Competitive Strengths & Weaknesses
- 9.14 Nippon
 - 9.14.1 Nippon Details
 - 9.14.2 Nippon Major Business
 - 9.14.3 Nippon Automotive Fuel Pressure Sensor Product and Services
 - 9.14.4 Nippon Automotive Fuel Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Nippon Recent Developments/Updates
 - 9.14.6 Nippon Competitive Strengths & Weaknesses
- 9.15 HKS

- 9.15.1 HKS Details
- 9.15.2 HKS Major Business
- 9.15.3 HKS Automotive Fuel Pressure Sensor Product and Services
- 9.15.4 HKS Automotive Fuel Pressure Sensor Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.15.5 HKS Recent Developments/Updates
- 9.15.6 HKS Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Automotive Fuel Pressure Sensor Industry Chain
- 10.2 Automotive Fuel Pressure Sensor Upstream Analysis
 - 10.2.1 Automotive Fuel Pressure Sensor Core Raw Materials
 - 10.2.2 Main Manufacturers of Automotive Fuel Pressure Sensor Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Automotive Fuel Pressure Sensor Production Mode
- 10.6 Automotive Fuel Pressure Sensor Procurement Model
- 10.7 Automotive Fuel Pressure Sensor Industry Sales Model and Sales Channels
 - 10.7.1 Automotive Fuel Pressure Sensor Sales Model
 - 10.7.2 Automotive Fuel 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 Automotive Fuel Pressure Sensor Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Automotive Fuel Pressure Sensor Production Value by Region (2021-2026) & (USD Million)

Table 3. World Automotive Fuel Pressure Sensor Production Value by Region (2027-2032) & (USD Million)

Table 4. World Automotive Fuel Pressure Sensor Production Value Market Share by Region (2021-2026)

Table 5. World Automotive Fuel Pressure Sensor Production Value Market Share by Region (2027-2032)

Table 6. World Automotive Fuel Pressure Sensor Production by Region (2021-2026) & (K Units)

Table 7. World Automotive Fuel Pressure Sensor Production by Region (2027-2032) & (K Units)

Table 8. World Automotive Fuel Pressure Sensor Production Market Share by Region (2021-2026)

Table 9. World Automotive Fuel Pressure Sensor Production Market Share by Region (2027-2032)

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

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

Table 12. Automotive Fuel Pressure Sensor Major Market Trends

Table 13. World Automotive Fuel Pressure Sensor Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Automotive Fuel Pressure Sensor Consumption by Region (2021-2026) & (K Units)

Table 15. World Automotive Fuel Pressure Sensor Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Automotive Fuel Pressure Sensor Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Automotive Fuel Pressure Sensor Producers in 2025

Table 18. World Automotive Fuel Pressure Sensor Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Automotive Fuel Pressure Sensor Producers in 2025

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

Table 21. Global Automotive Fuel Pressure Sensor Company Evaluation Quadrant

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

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

Table 24. Automotive Fuel Pressure Sensor Market: Company Product Type Footprint

Table 25. Automotive Fuel Pressure Sensor Market: Company Product Application Footprint

Table 26. Automotive Fuel Pressure Sensor Competitive Factors

Table 27. Automotive Fuel Pressure Sensor New Entrant and Capacity Expansion Plans

Table 28. Automotive Fuel Pressure Sensor Mergers & Acquisitions Activity

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

Table 30. United States VS China Automotive Fuel Pressure Sensor Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Automotive Fuel Pressure Sensor Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

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

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

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

Table 35. United States Based Manufacturers Automotive Fuel Pressure Sensor Production (2021-2026) & (K Units)

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

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

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

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

Table 40. China Based Manufacturers Automotive Fuel Pressure Sensor Production,

(2021-2026) & (K Units)

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

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

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

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

Table 45. Rest of World Based Manufacturers Automotive Fuel Pressure Sensor Production, (2021-2026) & (K Units)

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

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

Table 48. World Automotive Fuel Pressure Sensor Production by Type (2021-2026) & (K Units)

Table 49. World Automotive Fuel Pressure Sensor Production by Type (2027-2032) & (K Units)

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

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

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

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

Table 54. World Automotive Fuel Pressure Sensor Production Value by Fuel, (USD Million), 2021 & 2025 & 2032

Table 55. World Automotive Fuel Pressure Sensor Production by Fuel (2021-2026) & (K Units)

Table 56. World Automotive Fuel Pressure Sensor Production by Fuel (2027-2032) & (K Units)

Table 57. World Automotive Fuel Pressure Sensor Production Value by Fuel (2021-2026) & (USD Million)

Table 58. World Automotive Fuel Pressure Sensor Production Value by Fuel (2027-2032) & (USD Million)

Table 59. World Automotive Fuel Pressure Sensor Average Price by Fuel (2021-2026) & (US\$/Unit)

Table 60. World Automotive Fuel Pressure Sensor Average Price by Fuel (2027-2032) & (US\$/Unit)

Table 61. World Automotive Fuel Pressure Sensor Production Value by Channel, (USD Million), 2021 & 2025 & 2032

Table 62. World Automotive Fuel Pressure Sensor Production by Channel (2021-2026) & (K Units)

Table 63. World Automotive Fuel Pressure Sensor Production by Channel (2027-2032) & (K Units)

Table 64. World Automotive Fuel Pressure Sensor Production Value by Channel (2021-2026) & (USD Million)

Table 65. World Automotive Fuel Pressure Sensor Production Value by Channel (2027-2032) & (USD Million)

Table 66. World Automotive Fuel Pressure Sensor Average Price by Channel (2021-2026) & (US\$/Unit)

Table 67. World Automotive Fuel Pressure Sensor Average Price by Channel (2027-2032) & (US\$/Unit)

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

Table 69. World Automotive Fuel Pressure Sensor Production by Application (2021-2026) & (K Units)

Table 70. World Automotive Fuel Pressure Sensor Production by Application (2027-2032) & (K Units)

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

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

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

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

Table 75. Robert Bosch Basic Information, Manufacturing Base and Competitors

Table 76. Robert Bosch Major Business

Table 77. Robert Bosch Automotive Fuel Pressure Sensor Product and Services

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

Table 79. Robert Bosch Recent Developments/Updates

Table 80. Robert Bosch Competitive Strengths & Weaknesses

Table 81. DENSO Basic Information, Manufacturing Base and Competitors

Table 82. DENSO Major Business

Table 83. DENSO Automotive Fuel Pressure Sensor Product and Services

Table 84. DENSO Automotive Fuel Pressure Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. DENSO Recent Developments/Updates

Table 86. DENSO Competitive Strengths & Weaknesses

Table 87. Sensata Technologies Basic Information, Manufacturing Base and Competitors

Table 88. Sensata Technologies Major Business

Table 89. Sensata Technologies Automotive Fuel Pressure Sensor Product and Services

Table 90. Sensata Technologies Automotive Fuel Pressure Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Sensata Technologies Recent Developments/Updates

Table 92. Sensata Technologies Competitive Strengths & Weaknesses

Table 93. Continental Basic Information, Manufacturing Base and Competitors

Table 94. Continental Major Business

Table 95. Continental Automotive Fuel Pressure Sensor Product and Services

Table 96. Continental Automotive Fuel Pressure Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Continental Recent Developments/Updates

Table 98. Continental Competitive Strengths & Weaknesses

Table 99. PHINIA Basic Information, Manufacturing Base and Competitors

Table 100. PHINIA Major Business

Table 101. PHINIA Automotive Fuel Pressure Sensor Product and Services

Table 102. PHINIA Automotive Fuel Pressure Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. PHINIA Recent Developments/Updates

Table 104. PHINIA Competitive Strengths & Weaknesses

Table 105. TE Connectivity Basic Information, Manufacturing Base and Competitors

Table 106. TE Connectivity Major Business

Table 107. TE Connectivity Automotive Fuel Pressure Sensor Product and Services

Table 108. TE Connectivity Automotive Fuel Pressure Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. TE Connectivity Recent Developments/Updates
Table 110. TE Connectivity Competitive Strengths & Weaknesses
Table 111. Ampron Basic Information, Manufacturing Base and Competitors
Table 112. Ampron Major Business
Table 113. Ampron Automotive Fuel Pressure Sensor Product and Services
Table 114. Ampron Automotive Fuel Pressure Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Ampron Recent Developments/Updates
Table 116. Ampron Competitive Strengths & Weaknesses
Table 117. Niterra Basic Information, Manufacturing Base and Competitors
Table 118. Niterra Major Business
Table 119. Niterra Automotive Fuel Pressure Sensor Product and Services
Table 120. Niterra Automotive Fuel Pressure Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. Niterra Recent Developments/Updates
Table 122. Niterra Competitive Strengths & Weaknesses
Table 123. Holley Basic Information, Manufacturing Base and Competitors
Table 124. Holley Major Business
Table 125. Holley Automotive Fuel Pressure Sensor Product and Services
Table 126. Holley Automotive Fuel Pressure Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Holley Recent Developments/Updates
Table 128. Holley Competitive Strengths & Weaknesses
Table 129. Walker Products Basic Information, Manufacturing Base and Competitors
Table 130. Walker Products Major Business
Table 131. Walker Products Automotive Fuel Pressure Sensor Product and Services
Table 132. Walker Products Automotive Fuel Pressure Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Walker Products Recent Developments/Updates
Table 134. Walker Products Competitive Strengths & Weaknesses
Table 135. Wotian Basic Information, Manufacturing Base and Competitors
Table 136. Wotian Major Business
Table 137. Wotian Automotive Fuel Pressure Sensor Product and Services
Table 138. Wotian Automotive Fuel Pressure Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 139. Wotian Recent Developments/Updates

Table 140. Wotian Competitive Strengths & Weaknesses

Table 141. Hunan Firstrate Sensor Basic Information, Manufacturing Base and Competitors

Table 142. Hunan Firstrate Sensor Major Business

Table 143. Hunan Firstrate Sensor Automotive Fuel Pressure Sensor Product and Services

Table 144. Hunan Firstrate Sensor Automotive Fuel Pressure Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Hunan Firstrate Sensor Recent Developments/Updates

Table 146. Hunan Firstrate Sensor Competitive Strengths & Weaknesses

Table 147. Hitachi Basic Information, Manufacturing Base and Competitors

Table 148. Hitachi Major Business

Table 149. Hitachi Automotive Fuel Pressure Sensor Product and Services

Table 150. Hitachi Automotive Fuel Pressure Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Hitachi Recent Developments/Updates

Table 152. Hitachi Competitive Strengths & Weaknesses

Table 153. Nippon Basic Information, Manufacturing Base and Competitors

Table 154. Nippon Major Business

Table 155. Nippon Automotive Fuel Pressure Sensor Product and Services

Table 156. Nippon Automotive Fuel Pressure Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Nippon Recent Developments/Updates

Table 158. Nippon Competitive Strengths & Weaknesses

Table 159. HKS Basic Information, Manufacturing Base and Competitors

Table 160. HKS Major Business

Table 161. HKS Automotive Fuel Pressure Sensor Product and Services

Table 162. HKS Automotive Fuel Pressure Sensor Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. HKS Recent Developments/Updates

Table 164. HKS Competitive Strengths & Weaknesses

Table 165. Global Key Players of Automotive Fuel Pressure Sensor Upstream (Raw Materials)

Table 166. Global Automotive Fuel Pressure Sensor Typical Customers

Table 167. Automotive Fuel Pressure Sensor Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Automotive Fuel Pressure Sensor Picture

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

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

Figure 4. World Automotive Fuel Pressure Sensor Production (2021-2032) & (K Units)

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

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

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

Figure 8. North America Automotive Fuel Pressure Sensor Production (2021-2032) & (K Units)

Figure 9. Europe Automotive Fuel Pressure Sensor Production (2021-2032) & (K Units)

Figure 10. China Automotive Fuel Pressure Sensor Production (2021-2032) & (K Units)

Figure 11. Japan Automotive Fuel Pressure Sensor Production (2021-2032) & (K Units)

Figure 12. Automotive Fuel Pressure Sensor Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Automotive Fuel Pressure Sensor Consumption (2021-2032) & (K Units)

Figure 15. World Automotive Fuel Pressure Sensor Consumption Market Share by Region (2021-2032)

Figure 16. United States Automotive Fuel Pressure Sensor Consumption (2021-2032) & (K Units)

Figure 17. China Automotive Fuel Pressure Sensor Consumption (2021-2032) & (K Units)

Figure 18. Europe Automotive Fuel Pressure Sensor Consumption (2021-2032) & (K Units)

Figure 19. Japan Automotive Fuel Pressure Sensor Consumption (2021-2032) & (K Units)

Figure 20. South Korea Automotive Fuel Pressure Sensor Consumption (2021-2032) & (K Units)

Figure 21. ASEAN Automotive Fuel Pressure Sensor Consumption (2021-2032) & (K Units)

Figure 22. India Automotive Fuel Pressure Sensor Consumption (2021-2032) & (K Units)

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

Figure 24. Global Four-firm Concentration Ratios (CR4) for Automotive Fuel Pressure Sensor Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Automotive Fuel Pressure Sensor Markets in 2025

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

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

Figure 28. United States VS China: Automotive Fuel Pressure Sensor Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Automotive Fuel Pressure Sensor Production Market Share 2025

Figure 30. China Based Manufacturers Automotive Fuel Pressure Sensor Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Automotive Fuel Pressure Sensor Production Market Share 2025

Figure 32. World Automotive Fuel Pressure Sensor Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Automotive Fuel Pressure Sensor Production Value Market Share by Type in 2025

Figure 34. Low Voltage Pull-up Type

Figure 35. Low Voltage Pull-down Type

Figure 36. World Automotive Fuel Pressure Sensor Production Market Share by Type (2021-2032)

Figure 37. World Automotive Fuel Pressure Sensor Production Value Market Share by Type (2021-2032)

Figure 38. World Automotive Fuel Pressure Sensor Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. World Automotive Fuel Pressure Sensor Production Value by Fuel, (USD Million), 2021 & 2025 & 2032

Figure 40. World Automotive Fuel Pressure Sensor Production Value Market Share by Fuel in 2025

Figure 41. Gasoline

Figure 42. Diesel

Figure 43. General Purpose

Figure 44. World Automotive Fuel Pressure Sensor Production Market Share by Fuel (2021-2032)

Figure 45. World Automotive Fuel Pressure Sensor Production Value Market Share by Fuel (2021-2032)

Figure 46. World Automotive Fuel Pressure Sensor Average Price by Fuel (2021-2032) & (US\$/Unit)

Figure 47. World Automotive Fuel Pressure Sensor Production Value by Channel, (USD Million), 2021 & 2025 & 2032

Figure 48. World Automotive Fuel Pressure Sensor Production Value Market Share by Channel in 2025

Figure 49. OEM

Figure 50. After-Sales Replacement

Figure 51. World Automotive Fuel Pressure Sensor Production Market Share by Channel (2021-2032)

Figure 52. World Automotive Fuel Pressure Sensor Production Value Market Share by Channel (2021-2032)

Figure 53. World Automotive Fuel Pressure Sensor Average Price by Channel (2021-2032) & (US\$/Unit)

Figure 54. World Automotive Fuel Pressure Sensor Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Automotive Fuel Pressure Sensor Production Value Market Share by Application in 2025

Figure 56. Passenger Vehicles

Figure 57. Commercial Vehicles

Figure 58. World Automotive Fuel Pressure Sensor Production Market Share by Application (2021-2032)

Figure 59. World Automotive Fuel Pressure Sensor Production Value Market Share by Application (2021-2032)

Figure 60. World Automotive Fuel Pressure Sensor Average Price by Application (2021-2032) & (US\$/Unit)

Figure 61. Automotive Fuel Pressure Sensor Industry Chain

Figure 62. Automotive Fuel Pressure Sensor Procurement Model

Figure 63. Automotive Fuel Pressure Sensor Sales Model

Figure 64. Automotive Fuel Pressure Sensor Sales Channels, Direct Sales, and Distribution

Figure 65. Methodology

Figure 66. Research Process and Data Source

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