

# Global Exhaust Gas Recirculation Valve Position Sensors Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G1154498D0C4EN.html>

Date: March 2024

Pages: 114

Price: US\$ 3,480.00 (Single User License)

ID: G1154498D0C4EN

## Abstracts

According to our (Global Info Research) latest study, the global Exhaust Gas Recirculation Valve Position Sensors market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

Exhaust Gas Recirculation Valve Position Sensor is a sensor used to monitor the position of the EGR valve. It is usually installed in the engine's exhaust gas recirculation system and is associated with the EGR valve.

The EGR valve controls how much exhaust gas is reintroduced into the engine's combustion chamber to achieve the goal of reducing nitrogen oxide (NOx) emissions. The function of the EGR Position Sensor is to measure the opening and closing degree or position of the EGR valve and transmit this information to the engine control unit (ECU). The ECU adjusts the operation of the EGR valve based on these data in order to achieve the best exhaust gas recirculation rate.

EGR Position Sensor usually works based on the principles of resistance, Hall effect or photoelectric effect. It will generate corresponding signals according to the movement of the EGR valve, and convert them into voltage signals or pulse signals and output them to the ECU. The ECU analyzes these signals to determine the position of the EGR valve and adjusts it as needed.

With the EGR Position Sensor, the engine control system can more precisely control the exhaust gas recirculation process, thereby improving engine performance and fuel economy and reducing emission levels.

The Global Info Research report includes an overview of the development of the Exhaust Gas Recirculation Valve Position Sensors industry chain, the market status of Passenger Vehicles (EGR Position Sensor, EGR Position Sensor IC), Commercial Vehicles (EGR Position Sensor, EGR Position Sensor IC), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Exhaust Gas Recirculation Valve Position Sensors.

Regionally, the report analyzes the Exhaust Gas Recirculation Valve Position Sensors markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Exhaust Gas Recirculation Valve Position Sensors market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Exhaust Gas Recirculation Valve Position Sensors market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Exhaust Gas Recirculation Valve Position Sensors industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., EGR Position Sensor, EGR Position Sensor IC).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Exhaust Gas Recirculation Valve Position Sensors market.

**Regional Analysis:** The report involves examining the Exhaust Gas Recirculation Valve Position Sensors market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Exhaust Gas Recirculation Valve Position Sensors market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Exhaust Gas Recirculation Valve Position Sensors:

**Company Analysis:** Report covers individual Exhaust Gas Recirculation Valve Position Sensors manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Exhaust Gas Recirculation Valve Position Sensors. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Passenger Vehicles, Commercial Vehicles).

**Technology Analysis:** Report covers specific technologies relevant to Exhaust Gas Recirculation Valve Position Sensors. It assesses the current state, advancements, and potential future developments in Exhaust Gas Recirculation Valve Position Sensors areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Exhaust Gas Recirculation Valve Position Sensors market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Exhaust Gas Recirculation Valve Position Sensors market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

## Market segment by Type

EGR Position Sensor

EGR Position Sensor IC

## Market segment by Application

Passenger Vehicles

Commercial Vehicles

## Major players covered

Ford

Standard Motor Products

Denso

Delphi

Cummins

Niterra (NGK Spark Plugs)

Spectra Premium

Airtex

ZBN Auto

VEMO

Magntek

## Flying Fairy Intelligent

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Exhaust Gas Recirculation Valve Position Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Exhaust Gas Recirculation Valve Position Sensors, with price, sales, revenue and global market share of Exhaust Gas Recirculation Valve Position Sensors from 2019 to 2024.

Chapter 3, the Exhaust Gas Recirculation Valve Position Sensors competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Exhaust Gas Recirculation Valve Position Sensors breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017

to 2023.and Exhaust Gas Recirculation Valve Position Sensors market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Exhaust Gas Recirculation Valve Position Sensors.

Chapter 14 and 15, to describe Exhaust Gas Recirculation Valve Position Sensors sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope of Exhaust Gas Recirculation Valve Position Sensors

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Exhaust Gas Recirculation Valve Position Sensors

Consumption Value by Type: 2019 Versus 2023 Versus 2030

1.3.2 EGR Position Sensor

1.3.3 EGR Position Sensor IC

1.4 Market Analysis by Application

1.4.1 Overview: Global Exhaust Gas Recirculation Valve Position Sensors

Consumption Value by Application: 2019 Versus 2023 Versus 2030

1.4.2 Passenger Vehicles

1.4.3 Commercial Vehicles

1.5 Global Exhaust Gas Recirculation Valve Position Sensors Market Size & Forecast

1.5.1 Global Exhaust Gas Recirculation Valve Position Sensors Consumption Value (2019 & 2023 & 2030)

1.5.2 Global Exhaust Gas Recirculation Valve Position Sensors Sales Quantity (2019-2030)

1.5.3 Global Exhaust Gas Recirculation Valve Position Sensors Average Price (2019-2030)

### 2 MANUFACTURERS PROFILES

2.1 Ford

2.1.1 Ford Details

2.1.2 Ford Major Business

2.1.3 Ford Exhaust Gas Recirculation Valve Position Sensors Product and Services

2.1.4 Ford Exhaust Gas Recirculation Valve Position Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.1.5 Ford Recent Developments/Updates

2.2 Standard Motor Products

2.2.1 Standard Motor Products Details

2.2.2 Standard Motor Products Major Business

2.2.3 Standard Motor Products Exhaust Gas Recirculation Valve Position Sensors Product and Services

2.2.4 Standard Motor Products Exhaust Gas Recirculation Valve Position Sensors

Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.2.5 Standard Motor Products Recent Developments/Updates

2.3 Denso

2.3.1 Denso Details

2.3.2 Denso Major Business

2.3.3 Denso Exhaust Gas Recirculation Valve Position Sensors Product and Services

2.3.4 Denso Exhaust Gas Recirculation Valve Position Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.3.5 Denso Recent Developments/Updates

2.4 Delphi

2.4.1 Delphi Details

2.4.2 Delphi Major Business

2.4.3 Delphi Exhaust Gas Recirculation Valve Position Sensors Product and Services

2.4.4 Delphi Exhaust Gas Recirculation Valve Position Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.4.5 Delphi Recent Developments/Updates

2.5 Cummins

2.5.1 Cummins Details

2.5.2 Cummins Major Business

2.5.3 Cummins Exhaust Gas Recirculation Valve Position Sensors Product and Services

2.5.4 Cummins Exhaust Gas Recirculation Valve Position Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.5.5 Cummins Recent Developments/Updates

2.6 Niterra (NGK Spark Plugs)

2.6.1 Niterra (NGK Spark Plugs) Details

2.6.2 Niterra (NGK Spark Plugs) Major Business

2.6.3 Niterra (NGK Spark Plugs) Exhaust Gas Recirculation Valve Position Sensors Product and Services

2.6.4 Niterra (NGK Spark Plugs) Exhaust Gas Recirculation Valve Position Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.6.5 Niterra (NGK Spark Plugs) Recent Developments/Updates

2.7 Spectra Premium

2.7.1 Spectra Premium Details

2.7.2 Spectra Premium Major Business

2.7.3 Spectra Premium Exhaust Gas Recirculation Valve Position Sensors Product and Services

2.7.4 Spectra Premium Exhaust Gas Recirculation Valve Position Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)



## 2.7.5 Spectra Premium Recent Developments/Updates

## 2.8 Airtex

### 2.8.1 Airtex Details

### 2.8.2 Airtex Major Business

### 2.8.3 Airtex Exhaust Gas Recirculation Valve Position Sensors Product and Services

### 2.8.4 Airtex Exhaust Gas Recirculation Valve Position Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.8.5 Airtex Recent Developments/Updates

## 2.9 ZBN Auto

### 2.9.1 ZBN Auto Details

### 2.9.2 ZBN Auto Major Business

### 2.9.3 ZBN Auto Exhaust Gas Recirculation Valve Position Sensors Product and Services

### 2.9.4 ZBN Auto Exhaust Gas Recirculation Valve Position Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.9.5 ZBN Auto Recent Developments/Updates

## 2.10 VEMO

### 2.10.1 VEMO Details

### 2.10.2 VEMO Major Business

### 2.10.3 VEMO Exhaust Gas Recirculation Valve Position Sensors Product and Services

### 2.10.4 VEMO Exhaust Gas Recirculation Valve Position Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.10.5 VEMO Recent Developments/Updates

## 2.11 Magntek

### 2.11.1 Magntek Details

### 2.11.2 Magntek Major Business

### 2.11.3 Magntek Exhaust Gas Recirculation Valve Position Sensors Product and Services

### 2.11.4 Magntek Exhaust Gas Recirculation Valve Position Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.11.5 Magntek Recent Developments/Updates

## 2.12 Flying Fairy Intelligent

### 2.12.1 Flying Fairy Intelligent Details

### 2.12.2 Flying Fairy Intelligent Major Business

### 2.12.3 Flying Fairy Intelligent Exhaust Gas Recirculation Valve Position Sensors Product and Services

### 2.12.4 Flying Fairy Intelligent Exhaust Gas Recirculation Valve Position Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.12.5 Flying Fairy Intelligent Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: EXHAUST GAS RECIRCULATION VALVE POSITION SENSORS BY MANUFACTURER**

- 3.1 Global Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Manufacturer (2019-2024)
- 3.2 Global Exhaust Gas Recirculation Valve Position Sensors Revenue by Manufacturer (2019-2024)
- 3.3 Global Exhaust Gas Recirculation Valve Position Sensors Average Price by Manufacturer (2019-2024)
- 3.4 Market Share Analysis (2023)
  - 3.4.1 Producer Shipments of Exhaust Gas Recirculation Valve Position Sensors by Manufacturer Revenue (\$MM) and Market Share (%): 2023
  - 3.4.2 Top 3 Exhaust Gas Recirculation Valve Position Sensors Manufacturer Market Share in 2023
  - 3.4.2 Top 6 Exhaust Gas Recirculation Valve Position Sensors Manufacturer Market Share in 2023
- 3.5 Exhaust Gas Recirculation Valve Position Sensors Market: Overall Company Footprint Analysis
  - 3.5.1 Exhaust Gas Recirculation Valve Position Sensors Market: Region Footprint
  - 3.5.2 Exhaust Gas Recirculation Valve Position Sensors Market: Company Product Type Footprint
  - 3.5.3 Exhaust Gas Recirculation Valve Position Sensors Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

### **4 CONSUMPTION ANALYSIS BY REGION**

- 4.1 Global Exhaust Gas Recirculation Valve Position Sensors Market Size by Region
  - 4.1.1 Global Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Region (2019-2030)
  - 4.1.2 Global Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Region (2019-2030)
  - 4.1.3 Global Exhaust Gas Recirculation Valve Position Sensors Average Price by Region (2019-2030)
- 4.2 North America Exhaust Gas Recirculation Valve Position Sensors Consumption Value (2019-2030)
- 4.3 Europe Exhaust Gas Recirculation Valve Position Sensors Consumption Value

(2019-2030)

4.4 Asia-Pacific Exhaust Gas Recirculation Valve Position Sensors Consumption Value (2019-2030)

4.5 South America Exhaust Gas Recirculation Valve Position Sensors Consumption Value (2019-2030)

4.6 Middle East and Africa Exhaust Gas Recirculation Valve Position Sensors Consumption Value (2019-2030)

## **5 MARKET SEGMENT BY TYPE**

5.1 Global Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Type (2019-2030)

5.2 Global Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Type (2019-2030)

5.3 Global Exhaust Gas Recirculation Valve Position Sensors Average Price by Type (2019-2030)

## **6 MARKET SEGMENT BY APPLICATION**

6.1 Global Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Application (2019-2030)

6.2 Global Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Application (2019-2030)

6.3 Global Exhaust Gas Recirculation Valve Position Sensors Average Price by Application (2019-2030)

## **7 NORTH AMERICA**

7.1 North America Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Type (2019-2030)

7.2 North America Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Application (2019-2030)

7.3 North America Exhaust Gas Recirculation Valve Position Sensors Market Size by Country

7.3.1 North America Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Country (2019-2030)

7.3.2 North America Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Country (2019-2030)

7.3.3 United States Market Size and Forecast (2019-2030)

7.3.4 Canada Market Size and Forecast (2019-2030)

7.3.5 Mexico Market Size and Forecast (2019-2030)

## **8 EUROPE**

8.1 Europe Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Type (2019-2030)

8.2 Europe Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Application (2019-2030)

8.3 Europe Exhaust Gas Recirculation Valve Position Sensors Market Size by Country

8.3.1 Europe Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Country (2019-2030)

8.3.2 Europe Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Country (2019-2030)

8.3.3 Germany Market Size and Forecast (2019-2030)

8.3.4 France Market Size and Forecast (2019-2030)

8.3.5 United Kingdom Market Size and Forecast (2019-2030)

8.3.6 Russia Market Size and Forecast (2019-2030)

8.3.7 Italy Market Size and Forecast (2019-2030)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Type (2019-2030)

9.2 Asia-Pacific Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Application (2019-2030)

9.3 Asia-Pacific Exhaust Gas Recirculation Valve Position Sensors Market Size by Region

9.3.1 Asia-Pacific Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Region (2019-2030)

9.3.2 Asia-Pacific Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Region (2019-2030)

9.3.3 China Market Size and Forecast (2019-2030)

9.3.4 Japan Market Size and Forecast (2019-2030)

9.3.5 Korea Market Size and Forecast (2019-2030)

9.3.6 India Market Size and Forecast (2019-2030)

9.3.7 Southeast Asia Market Size and Forecast (2019-2030)

9.3.8 Australia Market Size and Forecast (2019-2030)

## **10 SOUTH AMERICA**

10.1 South America Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Type (2019-2030)

10.2 South America Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Application (2019-2030)

10.3 South America Exhaust Gas Recirculation Valve Position Sensors Market Size by Country

10.3.1 South America Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Country (2019-2030)

10.3.2 South America Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Country (2019-2030)

10.3.3 Brazil Market Size and Forecast (2019-2030)

10.3.4 Argentina Market Size and Forecast (2019-2030)

## **11 MIDDLE EAST & AFRICA**

11.1 Middle East & Africa Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Type (2019-2030)

11.2 Middle East & Africa Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Application (2019-2030)

11.3 Middle East & Africa Exhaust Gas Recirculation Valve Position Sensors Market Size by Country

11.3.1 Middle East & Africa Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Country (2019-2030)

11.3.2 Middle East & Africa Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Country (2019-2030)

11.3.3 Turkey Market Size and Forecast (2019-2030)

11.3.4 Egypt Market Size and Forecast (2019-2030)

11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)

11.3.6 South Africa Market Size and Forecast (2019-2030)

## **12 MARKET DYNAMICS**

12.1 Exhaust Gas Recirculation Valve Position Sensors Market Drivers

12.2 Exhaust Gas Recirculation Valve Position Sensors Market Restraints

12.3 Exhaust Gas Recirculation Valve Position Sensors Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

- 12.4.2 Bargaining Power of Suppliers
- 12.4.3 Bargaining Power of Buyers
- 12.4.4 Threat of Substitutes
- 12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

- 13.1 Raw Material of Exhaust Gas Recirculation Valve Position Sensors and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Exhaust Gas Recirculation Valve Position Sensors
- 13.3 Exhaust Gas Recirculation Valve Position Sensors Production Process
- 13.4 Exhaust Gas Recirculation Valve Position Sensors Industrial Chain

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

- 14.1 Sales Channel
  - 14.1.1 Direct to End-User
  - 14.1.2 Distributors
- 14.2 Exhaust Gas Recirculation Valve Position Sensors Typical Distributors
- 14.3 Exhaust Gas Recirculation Valve Position Sensors Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. Ford Basic Information, Manufacturing Base and Competitors

Table 4. Ford Major Business

Table 5. Ford Exhaust Gas Recirculation Valve Position Sensors Product and Services

Table 6. Ford Exhaust Gas Recirculation Valve Position Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 7. Ford Recent Developments/Updates

Table 8. Standard Motor Products Basic Information, Manufacturing Base and Competitors

Table 9. Standard Motor Products Major Business

Table 10. Standard Motor Products Exhaust Gas Recirculation Valve Position Sensors Product and Services

Table 11. Standard Motor Products Exhaust Gas Recirculation Valve Position Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 12. Standard Motor Products Recent Developments/Updates

Table 13. Denso Basic Information, Manufacturing Base and Competitors

Table 14. Denso Major Business

Table 15. Denso Exhaust Gas Recirculation Valve Position Sensors Product and Services

Table 16. Denso Exhaust Gas Recirculation Valve Position Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 17. Denso Recent Developments/Updates

Table 18. Delphi Basic Information, Manufacturing Base and Competitors

Table 19. Delphi Major Business

Table 20. Delphi Exhaust Gas Recirculation Valve Position Sensors Product and Services

Table 21. Delphi Exhaust Gas Recirculation Valve Position Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 22. Delphi Recent Developments/Updates

Table 23. Cummins Basic Information, Manufacturing Base and Competitors

Table 24. Cummins Major Business

Table 25. Cummins Exhaust Gas Recirculation Valve Position Sensors Product and Services

Table 26. Cummins Exhaust Gas Recirculation Valve Position Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 27. Cummins Recent Developments/Updates

Table 28. Niterra (NGK Spark Plugs) Basic Information, Manufacturing Base and Competitors

Table 29. Niterra (NGK Spark Plugs) Major Business

Table 30. Niterra (NGK Spark Plugs) Exhaust Gas Recirculation Valve Position Sensors Product and Services

Table 31. Niterra (NGK Spark Plugs) Exhaust Gas Recirculation Valve Position Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 32. Niterra (NGK Spark Plugs) Recent Developments/Updates

Table 33. Spectra Premium Basic Information, Manufacturing Base and Competitors

Table 34. Spectra Premium Major Business

Table 35. Spectra Premium Exhaust Gas Recirculation Valve Position Sensors Product and Services

Table 36. Spectra Premium Exhaust Gas Recirculation Valve Position Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 37. Spectra Premium Recent Developments/Updates

Table 38. Airtex Basic Information, Manufacturing Base and Competitors

Table 39. Airtex Major Business

Table 40. Airtex Exhaust Gas Recirculation Valve Position Sensors Product and Services

Table 41. Airtex Exhaust Gas Recirculation Valve Position Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 42. Airtex Recent Developments/Updates

Table 43. ZBN Auto Basic Information, Manufacturing Base and Competitors

Table 44. ZBN Auto Major Business

Table 45. ZBN Auto Exhaust Gas Recirculation Valve Position Sensors Product and Services

Table 46. ZBN Auto Exhaust Gas Recirculation Valve Position Sensors Sales Quantity



(K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 47. ZBN Auto Recent Developments/Updates

Table 48. VEMO Basic Information, Manufacturing Base and Competitors

Table 49. VEMO Major Business

Table 50. VEMO Exhaust Gas Recirculation Valve Position Sensors Product and Services

Table 51. VEMO Exhaust Gas Recirculation Valve Position Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 52. VEMO Recent Developments/Updates

Table 53. Magntek Basic Information, Manufacturing Base and Competitors

Table 54. Magntek Major Business

Table 55. Magntek Exhaust Gas Recirculation Valve Position Sensors Product and Services

Table 56. Magntek Exhaust Gas Recirculation Valve Position Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 57. Magntek Recent Developments/Updates

Table 58. Flying Fairy Intelligent Basic Information, Manufacturing Base and Competitors

Table 59. Flying Fairy Intelligent Major Business

Table 60. Flying Fairy Intelligent Exhaust Gas Recirculation Valve Position Sensors Product and Services

Table 61. Flying Fairy Intelligent Exhaust Gas Recirculation Valve Position Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 62. Flying Fairy Intelligent Recent Developments/Updates

Table 63. Global Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Manufacturer (2019-2024) & (K Units)

Table 64. Global Exhaust Gas Recirculation Valve Position Sensors Revenue by Manufacturer (2019-2024) & (USD Million)

Table 65. Global Exhaust Gas Recirculation Valve Position Sensors Average Price by Manufacturer (2019-2024) & (US\$/Unit)

Table 66. Market Position of Manufacturers in Exhaust Gas Recirculation Valve Position Sensors, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023

Table 67. Head Office and Exhaust Gas Recirculation Valve Position Sensors Production Site of Key Manufacturer

Table 68. Exhaust Gas Recirculation Valve Position Sensors Market: Company Product

## Type Footprint

Table 69. Exhaust Gas Recirculation Valve Position Sensors Market: Company Product Application Footprint

Table 70. Exhaust Gas Recirculation Valve Position Sensors New Market Entrants and Barriers to Market Entry

Table 71. Exhaust Gas Recirculation Valve Position Sensors Mergers, Acquisition, Agreements, and Collaborations

Table 72. Global Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Region (2019-2024) & (K Units)

Table 73. Global Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Region (2025-2030) & (K Units)

Table 74. Global Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Region (2019-2024) & (USD Million)

Table 75. Global Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Region (2025-2030) & (USD Million)

Table 76. Global Exhaust Gas Recirculation Valve Position Sensors Average Price by Region (2019-2024) & (US\$/Unit)

Table 77. Global Exhaust Gas Recirculation Valve Position Sensors Average Price by Region (2025-2030) & (US\$/Unit)

Table 78. Global Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Type (2019-2024) & (K Units)

Table 79. Global Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Type (2025-2030) & (K Units)

Table 80. Global Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Type (2019-2024) & (USD Million)

Table 81. Global Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Type (2025-2030) & (USD Million)

Table 82. Global Exhaust Gas Recirculation Valve Position Sensors Average Price by Type (2019-2024) & (US\$/Unit)

Table 83. Global Exhaust Gas Recirculation Valve Position Sensors Average Price by Type (2025-2030) & (US\$/Unit)

Table 84. Global Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Application (2019-2024) & (K Units)

Table 85. Global Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Application (2025-2030) & (K Units)

Table 86. Global Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Application (2019-2024) & (USD Million)

Table 87. Global Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Application (2025-2030) & (USD Million)

Table 88. Global Exhaust Gas Recirculation Valve Position Sensors Average Price by Application (2019-2024) & (US\$/Unit)

Table 89. Global Exhaust Gas Recirculation Valve Position Sensors Average Price by Application (2025-2030) & (US\$/Unit)

Table 90. North America Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Type (2019-2024) & (K Units)

Table 91. North America Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Type (2025-2030) & (K Units)

Table 92. North America Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Application (2019-2024) & (K Units)

Table 93. North America Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Application (2025-2030) & (K Units)

Table 94. North America Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Country (2019-2024) & (K Units)

Table 95. North America Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Country (2025-2030) & (K Units)

Table 96. North America Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Country (2019-2024) & (USD Million)

Table 97. North America Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Country (2025-2030) & (USD Million)

Table 98. Europe Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Type (2019-2024) & (K Units)

Table 99. Europe Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Type (2025-2030) & (K Units)

Table 100. Europe Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Application (2019-2024) & (K Units)

Table 101. Europe Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Application (2025-2030) & (K Units)

Table 102. Europe Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Country (2019-2024) & (K Units)

Table 103. Europe Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Country (2025-2030) & (K Units)

Table 104. Europe Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Country (2019-2024) & (USD Million)

Table 105. Europe Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Country (2025-2030) & (USD Million)

Table 106. Asia-Pacific Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Type (2019-2024) & (K Units)

Table 107. Asia-Pacific Exhaust Gas Recirculation Valve Position Sensors Sales

Quantity by Type (2025-2030) & (K Units)

Table 108. Asia-Pacific Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Application (2019-2024) & (K Units)

Table 109. Asia-Pacific Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Application (2025-2030) & (K Units)

Table 110. Asia-Pacific Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Region (2019-2024) & (K Units)

Table 111. Asia-Pacific Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Region (2025-2030) & (K Units)

Table 112. Asia-Pacific Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Region (2019-2024) & (USD Million)

Table 113. Asia-Pacific Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Region (2025-2030) & (USD Million)

Table 114. South America Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Type (2019-2024) & (K Units)

Table 115. South America Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Type (2025-2030) & (K Units)

Table 116. South America Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Application (2019-2024) & (K Units)

Table 117. South America Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Application (2025-2030) & (K Units)

Table 118. South America Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Country (2019-2024) & (K Units)

Table 119. South America Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Country (2025-2030) & (K Units)

Table 120. South America Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Country (2019-2024) & (USD Million)

Table 121. South America Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Country (2025-2030) & (USD Million)

Table 122. Middle East & Africa Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Type (2019-2024) & (K Units)

Table 123. Middle East & Africa Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Type (2025-2030) & (K Units)

Table 124. Middle East & Africa Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Application (2019-2024) & (K Units)

Table 125. Middle East & Africa Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Application (2025-2030) & (K Units)

Table 126. Middle East & Africa Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Region (2019-2024) & (K Units)

Table 127. Middle East & Africa Exhaust Gas Recirculation Valve Position Sensors Sales Quantity by Region (2025-2030) & (K Units)

Table 128. Middle East & Africa Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Region (2019-2024) & (USD Million)

Table 129. Middle East & Africa Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Region (2025-2030) & (USD Million)

Table 130. Exhaust Gas Recirculation Valve Position Sensors Raw Material

Table 131. Key Manufacturers of Exhaust Gas Recirculation Valve Position Sensors Raw Materials

Table 132. Exhaust Gas Recirculation Valve Position Sensors Typical Distributors

Table 133. Exhaust Gas Recirculation Valve Position Sensors Typical Customers

## LIST OF FIGURES

s

Figure 1. Exhaust Gas Recirculation Valve Position Sensors Picture

Figure 2. Global Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Figure 3. Global Exhaust Gas Recirculation Valve Position Sensors Consumption Value Market Share by Type in 2023

Figure 4. EGR Position Sensor Examples

Figure 5. EGR Position Sensor IC Examples

Figure 6. Global Exhaust Gas Recirculation Valve Position Sensors Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 7. Global Exhaust Gas Recirculation Valve Position Sensors Consumption Value Market Share by Application in 2023

Figure 8. Passenger Vehicles Examples

Figure 9. Commercial Vehicles Examples

Figure 10. Global Exhaust Gas Recirculation Valve Position Sensors Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 11. Global Exhaust Gas Recirculation Valve Position Sensors Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 12. Global Exhaust Gas Recirculation Valve Position Sensors Sales Quantity (2019-2030) & (K Units)

Figure 13. Global Exhaust Gas Recirculation Valve Position Sensors Average Price (2019-2030) & (US\$/Unit)

Figure 14. Global Exhaust Gas Recirculation Valve Position Sensors Sales Quantity Market Share by Manufacturer in 2023

Figure 15. Global Exhaust Gas Recirculation Valve Position Sensors Consumption Value Market Share by Manufacturer in 2023

Figure 16. Producer Shipments of Exhaust Gas Recirculation Valve Position Sensors by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023

Figure 17. Top 3 Exhaust Gas Recirculation Valve Position Sensors Manufacturer (Consumption Value) Market Share in 2023

Figure 18. Top 6 Exhaust Gas Recirculation Valve Position Sensors Manufacturer (Consumption Value) Market Share in 2023

Figure 19. Global Exhaust Gas Recirculation Valve Position Sensors Sales Quantity Market Share by Region (2019-2030)

Figure 20. Global Exhaust Gas Recirculation Valve Position Sensors Consumption Value Market Share by Region (2019-2030)

Figure 21. North America Exhaust Gas Recirculation Valve Position Sensors Consumption Value (2019-2030) & (USD Million)

Figure 22. Europe Exhaust Gas Recirculation Valve Position Sensors Consumption Value (2019-2030) & (USD Million)

Figure 23. Asia-Pacific Exhaust Gas Recirculation Valve Position Sensors Consumption Value (2019-2030) & (USD Million)

Figure 24. South America Exhaust Gas Recirculation Valve Position Sensors Consumption Value (2019-2030) & (USD Million)

Figure 25. Middle East & Africa Exhaust Gas Recirculation Valve Position Sensors Consumption Value (2019-2030) & (USD Million)

Figure 26. Global Exhaust Gas Recirculation Valve Position Sensors Sales Quantity Market Share by Type (2019-2030)

Figure 27. Global Exhaust Gas Recirculation Valve Position Sensors Consumption Value Market Share by Type (2019-2030)

Figure 28. Global Exhaust Gas Recirculation Valve Position Sensors Average Price by Type (2019-2030) & (US\$/Unit)

Figure 29. Global Exhaust Gas Recirculation Valve Position Sensors Sales Quantity Market Share by Application (2019-2030)

Figure 30. Global Exhaust Gas Recirculation Valve Position Sensors Consumption Value Market Share by Application (2019-2030)

Figure 31. Global Exhaust Gas Recirculation Valve Position Sensors Average Price by Application (2019-2030) & (US\$/Unit)

Figure 32. North America Exhaust Gas Recirculation Valve Position Sensors Sales Quantity Market Share by Type (2019-2030)

Figure 33. North America Exhaust Gas Recirculation Valve Position Sensors Sales Quantity Market Share by Application (2019-2030)

Figure 34. North America Exhaust Gas Recirculation Valve Position Sensors Sales Quantity Market Share by Country (2019-2030)

Figure 35. North America Exhaust Gas Recirculation Valve Position Sensors

Consumption Value Market Share by Country (2019-2030)

Figure 36. United States Exhaust Gas Recirculation Valve Position Sensors

Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 37. Canada Exhaust Gas Recirculation Valve Position Sensors Consumption

Value and Growth Rate (2019-2030) & (USD Million)

Figure 38. Mexico Exhaust Gas Recirculation Valve Position Sensors Consumption

Value and Growth Rate (2019-2030) & (USD Million)

Figure 39. Europe Exhaust Gas Recirculation Valve Position Sensors Sales Quantity

Market Share by Type (2019-2030)

Figure 40. Europe Exhaust Gas Recirculation Valve Position Sensors Sales Quantity

Market Share by Application (2019-2030)

Figure 41. Europe Exhaust Gas Recirculation Valve Position Sensors Sales Quantity

Market Share by Country (2019-2030)

Figure 42. Europe Exhaust Gas Recirculation Valve Position Sensors Consumption

Value Market Share by Country (2019-2030)

Figure 43. Germany Exhaust Gas Recirculation Valve Position Sensors Consumption  
Value and Growth Rate (2019-2030) & (USD Million)

Figure 44. France Exhaust Gas Recirculation Valve Position Sensors Consumption  
Value and Growth Rate (2019-2030) & (USD Million)

Figure 45. United Kingdom Exhaust Gas Recirculation Valve Position Sensors  
Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 46. Russia Exhaust Gas Recirculation Valve Position Sensors Consumption  
Value and Growth Rate (2019-2030) & (USD Million)

Figure 47. Italy Exhaust Gas Recirculation Valve Position Sensors Consumption Value  
and Growth Rate (2019-2030) & (USD Million)

Figure 48. Asia-Pacific Exhaust Gas Recirculation Valve Position Sensors Sales  
Quantity Market Share by Type (2019-2030)

Figure 49. Asia-Pacific Exhaust Gas Recirculation Valve Position Sensors Sales  
Quantity Market Share by Application (2019-2030)

Figure 50. Asia-Pacific Exhaust Gas Recirculation Valve Position Sensors Sales  
Quantity Market Share by Region (2019-2030)

Figure 51. Asia-Pacific Exhaust Gas Recirculation Valve Position Sensors Consumption  
Value Market Share by Region (2019-2030)

Figure 52. China Exhaust Gas Recirculation Valve Position Sensors Consumption  
Value and Growth Rate (2019-2030) & (USD Million)

Figure 53. Japan Exhaust Gas Recirculation Valve Position Sensors Consumption  
Value and Growth Rate (2019-2030) & (USD Million)

Figure 54. Korea Exhaust Gas Recirculation Valve Position Sensors Consumption  
Value and Growth Rate (2019-2030) & (USD Million)

Figure 55. India Exhaust Gas Recirculation Valve Position Sensors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 56. Southeast Asia Exhaust Gas Recirculation Valve Position Sensors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 57. Australia Exhaust Gas Recirculation Valve Position Sensors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 58. South America Exhaust Gas Recirculation Valve Position Sensors Sales Quantity Market Share by Type (2019-2030)

Figure 59. South America Exhaust Gas Recirculation Valve Position Sensors Sales Quantity Market Share by Application (2019-2030)

Figure 60. South America Exhaust Gas Recirculation Valve Position Sensors Sales Quantity Market Share by Country (2019-2030)

Figure 61. South America Exhaust Gas Recirculation Valve Position Sensors Consumption Value Market Share by Country (2019-2030)

Figure 62. Brazil Exhaust Gas Recirculation Valve Position Sensors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 63. Argentina Exhaust Gas Recirculation Valve Position Sensors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 64. Middle East & Africa Exhaust Gas Recirculation Valve Position Sensors Sales Quantity Market Share by Type (2019-2030)

Figure 65. Middle East & Africa Exhaust Gas Recirculation Valve Position Sensors Sales Quantity Market Share by Application (2019-2030)

Figure 66. Middle East & Africa Exhaust Gas Recirculation Valve Position Sensors Sales Quantity Market Share by Region (2019-2030)

Figure 67. Middle East & Africa Exhaust Gas Recirculation Valve Position Sensors Consumption Value Market Share by Region (2019-2030)

Figure 68. Turkey Exhaust Gas Recirculation Valve Position Sensors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 69. Egypt Exhaust Gas Recirculation Valve Position Sensors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 70. Saudi Arabia Exhaust Gas Recirculation Valve Position Sensors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 71. South Africa Exhaust Gas Recirculation Valve Position Sensors Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 72. Exhaust Gas Recirculation Valve Position Sensors Market Drivers

Figure 73. Exhaust Gas Recirculation Valve Position Sensors Market Restraints

Figure 74. Exhaust Gas Recirculation Valve Position Sensors Market Trends

Figure 75. Porters Five Forces Analysis

Figure 76. Manufacturing Cost Structure Analysis of Exhaust Gas Recirculation Valve



## Position Sensors in 2023

Figure 77. Manufacturing Process Analysis of Exhaust Gas Recirculation Valve Position Sensors

Figure 78. Exhaust Gas Recirculation Valve Position Sensors Industrial Chain

Figure 79. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 80. Direct Channel Pros & Cons

Figure 81. Indirect Channel Pros & Cons

Figure 82. Methodology

Figure 83. Research Process and Data Source

## I would like to order

Product name: Global Exhaust Gas Recirculation Valve Position Sensors Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

Product link: <https://marketpublishers.com/r/G1154498D0C4EN.html>

Price: US\$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G1154498D0C4EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

