

# Global Automotive Lambda Engine Sensor Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

<https://marketpublishers.com/r/G3DAA7CD30E6EN.html>

Date: February 2023

Pages: 115

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

ID: G3DAA7CD30E6EN

## Abstracts

Lambda engine sensor is designed to measure the amount of unburnt gases present in the exhaust pipe. The sensor transmits a signal to the electronic control unit (ECU), which adjusts the air-fuel mixture in the combustion engine. The lambda sensor, commonly known as oxygen sensor, helps detect whether the air-fuel mixture is lean or rich.

According to our (Global Info Research) latest study, the global Automotive Lambda Engine Sensor market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

This report is a detailed and comprehensive analysis for global Automotive Lambda Engine Sensor market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2023, are provided.

Key Features:

Global Automotive Lambda Engine Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Automotive Lambda Engine Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Automotive Lambda Engine Sensor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2018-2029

Global Automotive Lambda Engine Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2018-2023

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Automotive Lambda Engine Sensor

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Automotive Lambda Engine 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 GmbH, Hyundai Mobis, Delphi Automotive Plc, Continental AG and Denso Corporation, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

## Market Segmentation

Automotive Lambda Engine Sensor market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

## Market segment by Type

Titania Sensor

Zirconia Sensor

Others

## Market segment by Application

Galvanic

Infrared

Ultrasonic

Laser Technology

Others

## Major players covered

Robert Bosch GmbH

Hyundai Mobis

Delphi Automotive Plc

Continental AG

Denso Corporation

Analog Devices Inc.

General Electric

Infineon Technologies Inc.

ABB

Siemens AG

STMicroelectronics

Sensata Technologies Inc.

Schneider Electric

Yokogawa Electric Corporation

Hella GmbH & Co. KGaA

Hitachi Automotive Systems

MTE Thomson

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 Automotive Lambda Engine Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Lambda Engine Sensor, with price, sales, revenue and global market share of Automotive Lambda Engine Sensor from 2018 to 2023.

Chapter 3, the Automotive Lambda Engine Sensor competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Lambda Engine Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2018 to 2029.

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 2022. and Automotive Lambda Engine Sensor market forecast, by regions, type and application, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automotive Lambda Engine Sensor.

Chapter 14 and 15, to describe Automotive Lambda Engine Sensor sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of Automotive Lambda Engine Sensor
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
  - 1.3.1 Overview: Global Automotive Lambda Engine Sensor Consumption Value by Type: 2018 Versus 2022 Versus 2029
  - 1.3.2 Titania Sensor
  - 1.3.3 Zirconia Sensor
  - 1.3.4 Others
- 1.4 Market Analysis by Application
  - 1.4.1 Overview: Global Automotive Lambda Engine Sensor Consumption Value by Application: 2018 Versus 2022 Versus 2029
  - 1.4.2 Galvanic
  - 1.4.3 Infrared
  - 1.4.4 Ultrasonic
  - 1.4.5 Laser Technology
  - 1.4.6 Others
- 1.5 Global Automotive Lambda Engine Sensor Market Size & Forecast
  - 1.5.1 Global Automotive Lambda Engine Sensor Consumption Value (2018 & 2022 & 2029)
  - 1.5.2 Global Automotive Lambda Engine Sensor Sales Quantity (2018-2029)
  - 1.5.3 Global Automotive Lambda Engine Sensor Average Price (2018-2029)

### 2 MANUFACTURERS PROFILES

- 2.1 Robert Bosch GmbH
  - 2.1.1 Robert Bosch GmbH Details
  - 2.1.2 Robert Bosch GmbH Major Business
  - 2.1.3 Robert Bosch GmbH Automotive Lambda Engine Sensor Product and Services
  - 2.1.4 Robert Bosch GmbH Automotive Lambda Engine Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.1.5 Robert Bosch GmbH Recent Developments/Updates
- 2.2 Hyundai Mobis
  - 2.2.1 Hyundai Mobis Details
  - 2.2.2 Hyundai Mobis Major Business
  - 2.2.3 Hyundai Mobis Automotive Lambda Engine Sensor Product and Services

2.2.4 Hyundai Mobis Automotive Lambda Engine Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.2.5 Hyundai Mobis Recent Developments/Updates

2.3 Delphi Automotive Plc

2.3.1 Delphi Automotive Plc Details

2.3.2 Delphi Automotive Plc Major Business

2.3.3 Delphi Automotive Plc Automotive Lambda Engine Sensor Product and Services

2.3.4 Delphi Automotive Plc Automotive Lambda Engine Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.3.5 Delphi Automotive Plc Recent Developments/Updates

2.4 Continental AG

2.4.1 Continental AG Details

2.4.2 Continental AG Major Business

2.4.3 Continental AG Automotive Lambda Engine Sensor Product and Services

2.4.4 Continental AG Automotive Lambda Engine Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.4.5 Continental AG Recent Developments/Updates

2.5 Denso Corporation

2.5.1 Denso Corporation Details

2.5.2 Denso Corporation Major Business

2.5.3 Denso Corporation Automotive Lambda Engine Sensor Product and Services

2.5.4 Denso Corporation Automotive Lambda Engine Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.5.5 Denso Corporation Recent Developments/Updates

2.6 Analog Devices Inc.

2.6.1 Analog Devices Inc. Details

2.6.2 Analog Devices Inc. Major Business

2.6.3 Analog Devices Inc. Automotive Lambda Engine Sensor Product and Services

2.6.4 Analog Devices Inc. Automotive Lambda Engine Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.6.5 Analog Devices Inc. Recent Developments/Updates

2.7 General Electric

2.7.1 General Electric Details

2.7.2 General Electric Major Business

2.7.3 General Electric Automotive Lambda Engine Sensor Product and Services

2.7.4 General Electric Automotive Lambda Engine Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)

2.7.5 General Electric Recent Developments/Updates

2.8 Infineon Technologies Inc.

- 2.8.1 Infineon Technologies Inc. Details
- 2.8.2 Infineon Technologies Inc. Major Business
- 2.8.3 Infineon Technologies Inc. Automotive Lambda Engine Sensor Product and Services
- 2.8.4 Infineon Technologies Inc. Automotive Lambda Engine Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
- 2.8.5 Infineon Technologies Inc. Recent Developments/Updates
- 2.9 ABB
  - 2.9.1 ABB Details
  - 2.9.2 ABB Major Business
  - 2.9.3 ABB Automotive Lambda Engine Sensor Product and Services
  - 2.9.4 ABB Automotive Lambda Engine Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.9.5 ABB Recent Developments/Updates
- 2.10 Siemens AG
  - 2.10.1 Siemens AG Details
  - 2.10.2 Siemens AG Major Business
  - 2.10.3 Siemens AG Automotive Lambda Engine Sensor Product and Services
  - 2.10.4 Siemens AG Automotive Lambda Engine Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.10.5 Siemens AG Recent Developments/Updates
- 2.11 STMicroelectronics
  - 2.11.1 STMicroelectronics Details
  - 2.11.2 STMicroelectronics Major Business
  - 2.11.3 STMicroelectronics Automotive Lambda Engine Sensor Product and Services
  - 2.11.4 STMicroelectronics Automotive Lambda Engine Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.11.5 STMicroelectronics Recent Developments/Updates
- 2.12 Sensata Technologies Inc.
  - 2.12.1 Sensata Technologies Inc. Details
  - 2.12.2 Sensata Technologies Inc. Major Business
  - 2.12.3 Sensata Technologies Inc. Automotive Lambda Engine Sensor Product and Services
  - 2.12.4 Sensata Technologies Inc. Automotive Lambda Engine Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.12.5 Sensata Technologies Inc. Recent Developments/Updates
- 2.13 Schneider Electric
  - 2.13.1 Schneider Electric Details
  - 2.13.2 Schneider Electric Major Business



- 2.13.3 Schneider Electric Automotive Lambda Engine Sensor Product and Services
- 2.13.4 Schneider Electric Automotive Lambda Engine Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
- 2.13.5 Schneider Electric Recent Developments/Updates
- 2.14 Yokogawa Electric Corporation
  - 2.14.1 Yokogawa Electric Corporation Details
  - 2.14.2 Yokogawa Electric Corporation Major Business
  - 2.14.3 Yokogawa Electric Corporation Automotive Lambda Engine Sensor Product and Services
  - 2.14.4 Yokogawa Electric Corporation Automotive Lambda Engine Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.14.5 Yokogawa Electric Corporation Recent Developments/Updates
- 2.15 Hella GmbH & Co. KGaA
  - 2.15.1 Hella GmbH & Co. KGaA Details
  - 2.15.2 Hella GmbH & Co. KGaA Major Business
  - 2.15.3 Hella GmbH & Co. KGaA Automotive Lambda Engine Sensor Product and Services
  - 2.15.4 Hella GmbH & Co. KGaA Automotive Lambda Engine Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.15.5 Hella GmbH & Co. KGaA Recent Developments/Updates
- 2.16 Hitachi Automotive Systems
  - 2.16.1 Hitachi Automotive Systems Details
  - 2.16.2 Hitachi Automotive Systems Major Business
  - 2.16.3 Hitachi Automotive Systems Automotive Lambda Engine Sensor Product and Services
  - 2.16.4 Hitachi Automotive Systems Automotive Lambda Engine Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.16.5 Hitachi Automotive Systems Recent Developments/Updates
- 2.17 MTE Thomson
  - 2.17.1 MTE Thomson Details
  - 2.17.2 MTE Thomson Major Business
  - 2.17.3 MTE Thomson Automotive Lambda Engine Sensor Product and Services
  - 2.17.4 MTE Thomson Automotive Lambda Engine Sensor Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2018-2023)
  - 2.17.5 MTE Thomson Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: AUTOMOTIVE LAMBDA ENGINE SENSOR BY MANUFACTURER**

- 3.1 Global Automotive Lambda Engine Sensor Sales Quantity by Manufacturer (2018-2023)
- 3.2 Global Automotive Lambda Engine Sensor Revenue by Manufacturer (2018-2023)
- 3.3 Global Automotive Lambda Engine Sensor Average Price by Manufacturer (2018-2023)
- 3.4 Market Share Analysis (2022)
  - 3.4.1 Producer Shipments of Automotive Lambda Engine Sensor by Manufacturer Revenue (\$MM) and Market Share (%): 2022
  - 3.4.2 Top 3 Automotive Lambda Engine Sensor Manufacturer Market Share in 2022
  - 3.4.2 Top 6 Automotive Lambda Engine Sensor Manufacturer Market Share in 2022
- 3.5 Automotive Lambda Engine Sensor Market: Overall Company Footprint Analysis
  - 3.5.1 Automotive Lambda Engine Sensor Market: Region Footprint
  - 3.5.2 Automotive Lambda Engine Sensor Market: Company Product Type Footprint
  - 3.5.3 Automotive Lambda Engine Sensor 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 Automotive Lambda Engine Sensor Market Size by Region
  - 4.1.1 Global Automotive Lambda Engine Sensor Sales Quantity by Region (2018-2029)
  - 4.1.2 Global Automotive Lambda Engine Sensor Consumption Value by Region (2018-2029)
  - 4.1.3 Global Automotive Lambda Engine Sensor Average Price by Region (2018-2029)
- 4.2 North America Automotive Lambda Engine Sensor Consumption Value (2018-2029)
- 4.3 Europe Automotive Lambda Engine Sensor Consumption Value (2018-2029)
- 4.4 Asia-Pacific Automotive Lambda Engine Sensor Consumption Value (2018-2029)
- 4.5 South America Automotive Lambda Engine Sensor Consumption Value (2018-2029)
- 4.6 Middle East and Africa Automotive Lambda Engine Sensor Consumption Value (2018-2029)

## **5 MARKET SEGMENT BY TYPE**

- 5.1 Global Automotive Lambda Engine Sensor Sales Quantity by Type (2018-2029)
- 5.2 Global Automotive Lambda Engine Sensor Consumption Value by Type (2018-2029)

5.3 Global Automotive Lambda Engine Sensor Average Price by Type (2018-2029)

## **6 MARKET SEGMENT BY APPLICATION**

6.1 Global Automotive Lambda Engine Sensor Sales Quantity by Application (2018-2029)

6.2 Global Automotive Lambda Engine Sensor Consumption Value by Application (2018-2029)

6.3 Global Automotive Lambda Engine Sensor Average Price by Application (2018-2029)

## **7 NORTH AMERICA**

7.1 North America Automotive Lambda Engine Sensor Sales Quantity by Type (2018-2029)

7.2 North America Automotive Lambda Engine Sensor Sales Quantity by Application (2018-2029)

7.3 North America Automotive Lambda Engine Sensor Market Size by Country

7.3.1 North America Automotive Lambda Engine Sensor Sales Quantity by Country (2018-2029)

7.3.2 North America Automotive Lambda Engine Sensor Consumption Value by Country (2018-2029)

7.3.3 United States Market Size and Forecast (2018-2029)

7.3.4 Canada Market Size and Forecast (2018-2029)

7.3.5 Mexico Market Size and Forecast (2018-2029)

## **8 EUROPE**

8.1 Europe Automotive Lambda Engine Sensor Sales Quantity by Type (2018-2029)

8.2 Europe Automotive Lambda Engine Sensor Sales Quantity by Application (2018-2029)

8.3 Europe Automotive Lambda Engine Sensor Market Size by Country

8.3.1 Europe Automotive Lambda Engine Sensor Sales Quantity by Country (2018-2029)

8.3.2 Europe Automotive Lambda Engine Sensor Consumption Value by Country (2018-2029)

8.3.3 Germany Market Size and Forecast (2018-2029)

8.3.4 France Market Size and Forecast (2018-2029)

8.3.5 United Kingdom Market Size and Forecast (2018-2029)

8.3.6 Russia Market Size and Forecast (2018-2029)

8.3.7 Italy Market Size and Forecast (2018-2029)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific Automotive Lambda Engine Sensor Sales Quantity by Type (2018-2029)

9.2 Asia-Pacific Automotive Lambda Engine Sensor Sales Quantity by Application (2018-2029)

9.3 Asia-Pacific Automotive Lambda Engine Sensor Market Size by Region

9.3.1 Asia-Pacific Automotive Lambda Engine Sensor Sales Quantity by Region (2018-2029)

9.3.2 Asia-Pacific Automotive Lambda Engine Sensor Consumption Value by Region (2018-2029)

9.3.3 China Market Size and Forecast (2018-2029)

9.3.4 Japan Market Size and Forecast (2018-2029)

9.3.5 Korea Market Size and Forecast (2018-2029)

9.3.6 India Market Size and Forecast (2018-2029)

9.3.7 Southeast Asia Market Size and Forecast (2018-2029)

9.3.8 Australia Market Size and Forecast (2018-2029)

## **10 SOUTH AMERICA**

10.1 South America Automotive Lambda Engine Sensor Sales Quantity by Type (2018-2029)

10.2 South America Automotive Lambda Engine Sensor Sales Quantity by Application (2018-2029)

10.3 South America Automotive Lambda Engine Sensor Market Size by Country

10.3.1 South America Automotive Lambda Engine Sensor Sales Quantity by Country (2018-2029)

10.3.2 South America Automotive Lambda Engine Sensor Consumption Value by Country (2018-2029)

10.3.3 Brazil Market Size and Forecast (2018-2029)

10.3.4 Argentina Market Size and Forecast (2018-2029)

## **11 MIDDLE EAST & AFRICA**

11.1 Middle East & Africa Automotive Lambda Engine Sensor Sales Quantity by Type (2018-2029)

- 11.2 Middle East & Africa Automotive Lambda Engine Sensor Sales Quantity by Application (2018-2029)
- 11.3 Middle East & Africa Automotive Lambda Engine Sensor Market Size by Country
  - 11.3.1 Middle East & Africa Automotive Lambda Engine Sensor Sales Quantity by Country (2018-2029)
  - 11.3.2 Middle East & Africa Automotive Lambda Engine Sensor Consumption Value by Country (2018-2029)
  - 11.3.3 Turkey Market Size and Forecast (2018-2029)
  - 11.3.4 Egypt Market Size and Forecast (2018-2029)
  - 11.3.5 Saudi Arabia Market Size and Forecast (2018-2029)
  - 11.3.6 South Africa Market Size and Forecast (2018-2029)

## **12 MARKET DYNAMICS**

- 12.1 Automotive Lambda Engine Sensor Market Drivers
- 12.2 Automotive Lambda Engine Sensor Market Restraints
- 12.3 Automotive Lambda Engine Sensor 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
- 12.5 Influence of COVID-19 and Russia-Ukraine War
  - 12.5.1 Influence of COVID-19
  - 12.5.2 Influence of Russia-Ukraine War

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

- 13.1 Raw Material of Automotive Lambda Engine Sensor and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Automotive Lambda Engine Sensor
- 13.3 Automotive Lambda Engine Sensor Production Process
- 13.4 Automotive Lambda Engine Sensor Industrial Chain

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

- 14.1 Sales Channel
  - 14.1.1 Direct to End-User
  - 14.1.2 Distributors

14.2 Automotive Lambda Engine Sensor Typical Distributors

14.3 Automotive Lambda Engine Sensor 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 Automotive Lambda Engine Sensor Consumption Value by Type, (USD Million), 2018 & 2022 & 2029

Table 2. Global Automotive Lambda Engine Sensor Consumption Value by Application, (USD Million), 2018 & 2022 & 2029

Table 3. Robert Bosch GmbH Basic Information, Manufacturing Base and Competitors

Table 4. Robert Bosch GmbH Major Business

Table 5. Robert Bosch GmbH Automotive Lambda Engine Sensor Product and Services

Table 6. Robert Bosch GmbH Automotive Lambda Engine Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 7. Robert Bosch GmbH Recent Developments/Updates

Table 8. Hyundai Mobis Basic Information, Manufacturing Base and Competitors

Table 9. Hyundai Mobis Major Business

Table 10. Hyundai Mobis Automotive Lambda Engine Sensor Product and Services

Table 11. Hyundai Mobis Automotive Lambda Engine Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 12. Hyundai Mobis Recent Developments/Updates

Table 13. Delphi Automotive Plc Basic Information, Manufacturing Base and Competitors

Table 14. Delphi Automotive Plc Major Business

Table 15. Delphi Automotive Plc Automotive Lambda Engine Sensor Product and Services

Table 16. Delphi Automotive Plc Automotive Lambda Engine Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 17. Delphi Automotive Plc Recent Developments/Updates

Table 18. Continental AG Basic Information, Manufacturing Base and Competitors

Table 19. Continental AG Major Business

Table 20. Continental AG Automotive Lambda Engine Sensor Product and Services

Table 21. Continental AG Automotive Lambda Engine Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 22. Continental AG Recent Developments/Updates

Table 23. Denso Corporation Basic Information, Manufacturing Base and Competitors



- Table 24. Denso Corporation Major Business
- Table 25. Denso Corporation Automotive Lambda Engine Sensor Product and Services
- Table 26. Denso Corporation Automotive Lambda Engine Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 27. Denso Corporation Recent Developments/Updates
- Table 28. Analog Devices Inc. Basic Information, Manufacturing Base and Competitors
- Table 29. Analog Devices Inc. Major Business
- Table 30. Analog Devices Inc. Automotive Lambda Engine Sensor Product and Services
- Table 31. Analog Devices Inc. Automotive Lambda Engine Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 32. Analog Devices Inc. Recent Developments/Updates
- Table 33. General Electric Basic Information, Manufacturing Base and Competitors
- Table 34. General Electric Major Business
- Table 35. General Electric Automotive Lambda Engine Sensor Product and Services
- Table 36. General Electric Automotive Lambda Engine Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 37. General Electric Recent Developments/Updates
- Table 38. Infineon Technologies Inc. Basic Information, Manufacturing Base and Competitors
- Table 39. Infineon Technologies Inc. Major Business
- Table 40. Infineon Technologies Inc. Automotive Lambda Engine Sensor Product and Services
- Table 41. Infineon Technologies Inc. Automotive Lambda Engine Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 42. Infineon Technologies Inc. Recent Developments/Updates
- Table 43. ABB Basic Information, Manufacturing Base and Competitors
- Table 44. ABB Major Business
- Table 45. ABB Automotive Lambda Engine Sensor Product and Services
- Table 46. ABB Automotive Lambda Engine Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)
- Table 47. ABB Recent Developments/Updates
- Table 48. Siemens AG Basic Information, Manufacturing Base and Competitors
- Table 49. Siemens AG Major Business
- Table 50. Siemens AG Automotive Lambda Engine Sensor Product and Services



Table 51. Siemens AG Automotive Lambda Engine Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 52. Siemens AG Recent Developments/Updates

Table 53. STMicroelectronics Basic Information, Manufacturing Base and Competitors

Table 54. STMicroelectronics Major Business

Table 55. STMicroelectronics Automotive Lambda Engine Sensor Product and Services

Table 56. STMicroelectronics Automotive Lambda Engine Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 57. STMicroelectronics Recent Developments/Updates

Table 58. Sensata Technologies Inc. Basic Information, Manufacturing Base and Competitors

Table 59. Sensata Technologies Inc. Major Business

Table 60. Sensata Technologies Inc. Automotive Lambda Engine Sensor Product and Services

Table 61. Sensata Technologies Inc. Automotive Lambda Engine Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 62. Sensata Technologies Inc. Recent Developments/Updates

Table 63. Schneider Electric Basic Information, Manufacturing Base and Competitors

Table 64. Schneider Electric Major Business

Table 65. Schneider Electric Automotive Lambda Engine Sensor Product and Services

Table 66. Schneider Electric Automotive Lambda Engine Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 67. Schneider Electric Recent Developments/Updates

Table 68. Yokogawa Electric Corporation Basic Information, Manufacturing Base and Competitors

Table 69. Yokogawa Electric Corporation Major Business

Table 70. Yokogawa Electric Corporation Automotive Lambda Engine Sensor Product and Services

Table 71. Yokogawa Electric Corporation Automotive Lambda Engine Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 72. Yokogawa Electric Corporation Recent Developments/Updates

Table 73. Hella GmbH & Co. KGaA Basic Information, Manufacturing Base and Competitors

Table 74. Hella GmbH & Co. KGaA Major Business

Table 75. Hella GmbH & Co. KGaA Automotive Lambda Engine Sensor Product and Services

Table 76. Hella GmbH & Co. KGaA Automotive Lambda Engine Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. Hella GmbH & Co. KGaA Recent Developments/Updates

Table 78. Hitachi Automotive Systems Basic Information, Manufacturing Base and Competitors

Table 79. Hitachi Automotive Systems Major Business

Table 80. Hitachi Automotive Systems Automotive Lambda Engine Sensor Product and Services

Table 81. Hitachi Automotive Systems Automotive Lambda Engine Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 82. Hitachi Automotive Systems Recent Developments/Updates

Table 83. MTE Thomson Basic Information, Manufacturing Base and Competitors

Table 84. MTE Thomson Major Business

Table 85. MTE Thomson Automotive Lambda Engine Sensor Product and Services

Table 86. MTE Thomson Automotive Lambda Engine Sensor Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2018-2023)

Table 87. MTE Thomson Recent Developments/Updates

Table 88. Global Automotive Lambda Engine Sensor Sales Quantity by Manufacturer (2018-2023) & (K Units)

Table 89. Global Automotive Lambda Engine Sensor Revenue by Manufacturer (2018-2023) & (USD Million)

Table 90. Global Automotive Lambda Engine Sensor Average Price by Manufacturer (2018-2023) & (US\$/Unit)

Table 91. Market Position of Manufacturers in Automotive Lambda Engine Sensor, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2022

Table 92. Head Office and Automotive Lambda Engine Sensor Production Site of Key Manufacturer

Table 93. Automotive Lambda Engine Sensor Market: Company Product Type Footprint

Table 94. Automotive Lambda Engine Sensor Market: Company Product Application Footprint

Table 95. Automotive Lambda Engine Sensor New Market Entrants and Barriers to Market Entry

Table 96. Automotive Lambda Engine Sensor Mergers, Acquisition, Agreements, and Collaborations

Table 97. Global Automotive Lambda Engine Sensor Sales Quantity by Region (2018-2023) & (K Units)

Table 98. Global Automotive Lambda Engine Sensor Sales Quantity by Region (2024-2029) & (K Units)

Table 99. Global Automotive Lambda Engine Sensor Consumption Value by Region (2018-2023) & (USD Million)

Table 100. Global Automotive Lambda Engine Sensor Consumption Value by Region (2024-2029) & (USD Million)

Table 101. Global Automotive Lambda Engine Sensor Average Price by Region (2018-2023) & (US\$/Unit)

Table 102. Global Automotive Lambda Engine Sensor Average Price by Region (2024-2029) & (US\$/Unit)

Table 103. Global Automotive Lambda Engine Sensor Sales Quantity by Type (2018-2023) & (K Units)

Table 104. Global Automotive Lambda Engine Sensor Sales Quantity by Type (2024-2029) & (K Units)

Table 105. Global Automotive Lambda Engine Sensor Consumption Value by Type (2018-2023) & (USD Million)

Table 106. Global Automotive Lambda Engine Sensor Consumption Value by Type (2024-2029) & (USD Million)

Table 107. Global Automotive Lambda Engine Sensor Average Price by Type (2018-2023) & (US\$/Unit)

Table 108. Global Automotive Lambda Engine Sensor Average Price by Type (2024-2029) & (US\$/Unit)

Table 109. Global Automotive Lambda Engine Sensor Sales Quantity by Application (2018-2023) & (K Units)

Table 110. Global Automotive Lambda Engine Sensor Sales Quantity by Application (2024-2029) & (K Units)

Table 111. Global Automotive Lambda Engine Sensor Consumption Value by Application (2018-2023) & (USD Million)

Table 112. Global Automotive Lambda Engine Sensor Consumption Value by Application (2024-2029) & (USD Million)

Table 113. Global Automotive Lambda Engine Sensor Average Price by Application (2018-2023) & (US\$/Unit)

Table 114. Global Automotive Lambda Engine Sensor Average Price by Application (2024-2029) & (US\$/Unit)

Table 115. North America Automotive Lambda Engine Sensor Sales Quantity by Type (2018-2023) & (K Units)

Table 116. North America Automotive Lambda Engine Sensor Sales Quantity by Type

(2024-2029) & (K Units)

Table 117. North America Automotive Lambda Engine Sensor Sales Quantity by Application (2018-2023) & (K Units)

Table 118. North America Automotive Lambda Engine Sensor Sales Quantity by Application (2024-2029) & (K Units)

Table 119. North America Automotive Lambda Engine Sensor Sales Quantity by Country (2018-2023) & (K Units)

Table 120. North America Automotive Lambda Engine Sensor Sales Quantity by Country (2024-2029) & (K Units)

Table 121. North America Automotive Lambda Engine Sensor Consumption Value by Country (2018-2023) & (USD Million)

Table 122. North America Automotive Lambda Engine Sensor Consumption Value by Country (2024-2029) & (USD Million)

Table 123. Europe Automotive Lambda Engine Sensor Sales Quantity by Type (2018-2023) & (K Units)

Table 124. Europe Automotive Lambda Engine Sensor Sales Quantity by Type (2024-2029) & (K Units)

Table 125. Europe Automotive Lambda Engine Sensor Sales Quantity by Application (2018-2023) & (K Units)

Table 126. Europe Automotive Lambda Engine Sensor Sales Quantity by Application (2024-2029) & (K Units)

Table 127. Europe Automotive Lambda Engine Sensor Sales Quantity by Country (2018-2023) & (K Units)

Table 128. Europe Automotive Lambda Engine Sensor Sales Quantity by Country (2024-2029) & (K Units)

Table 129. Europe Automotive Lambda Engine Sensor Consumption Value by Country (2018-2023) & (USD Million)

Table 130. Europe Automotive Lambda Engine Sensor Consumption Value by Country (2024-2029) & (USD Million)

Table 131. Asia-Pacific Automotive Lambda Engine Sensor Sales Quantity by Type (2018-2023) & (K Units)

Table 132. Asia-Pacific Automotive Lambda Engine Sensor Sales Quantity by Type (2024-2029) & (K Units)

Table 133. Asia-Pacific Automotive Lambda Engine Sensor Sales Quantity by Application (2018-2023) & (K Units)

Table 134. Asia-Pacific Automotive Lambda Engine Sensor Sales Quantity by Application (2024-2029) & (K Units)

Table 135. Asia-Pacific Automotive Lambda Engine Sensor Sales Quantity by Region (2018-2023) & (K Units)

Table 136. Asia-Pacific Automotive Lambda Engine Sensor Sales Quantity by Region (2024-2029) & (K Units)

Table 137. Asia-Pacific Automotive Lambda Engine Sensor Consumption Value by Region (2018-2023) & (USD Million)

Table 138. Asia-Pacific Automotive Lambda Engine Sensor Consumption Value by Region (2024-2029) & (USD Million)

Table 139. South America Automotive Lambda Engine Sensor Sales Quantity by Type (2018-2023) & (K Units)

Table 140. South America Automotive Lambda Engine Sensor Sales Quantity by Type (2024-2029) & (K Units)

Table 141. South America Automotive Lambda Engine Sensor Sales Quantity by Application (2018-2023) & (K Units)

Table 142. South America Automotive Lambda Engine Sensor Sales Quantity by Application (2024-2029) & (K Units)

Table 143. South America Automotive Lambda Engine Sensor Sales Quantity by Country (2018-2023) & (K Units)

Table 144. South America Automotive Lambda Engine Sensor Sales Quantity by Country (2024-2029) & (K Units)

Table 145. South America Automotive Lambda Engine Sensor Consumption Value by Country (2018-2023) & (USD Million)

Table 146. South America Automotive Lambda Engine Sensor Consumption Value by Country (2024-2029) & (USD Million)

Table 147. Middle East & Africa Automotive Lambda Engine Sensor Sales Quantity by Type (2018-2023) & (K Units)

Table 148. Middle East & Africa Automotive Lambda Engine Sensor Sales Quantity by Type (2024-2029) & (K Units)

Table 149. Middle East & Africa Automotive Lambda Engine Sensor Sales Quantity by Application (2018-2023) & (K Units)

Table 150. Middle East & Africa Automotive Lambda Engine Sensor Sales Quantity by Application (2024-2029) & (K Units)

Table 151. Middle East & Africa Automotive Lambda Engine Sensor Sales Quantity by Region (2018-2023) & (K Units)

Table 152. Middle East & Africa Automotive Lambda Engine Sensor Sales Quantity by Region (2024-2029) & (K Units)

Table 153. Middle East & Africa Automotive Lambda Engine Sensor Consumption Value by Region (2018-2023) & (USD Million)

Table 154. Middle East & Africa Automotive Lambda Engine Sensor Consumption Value by Region (2024-2029) & (USD Million)

Table 155. Automotive Lambda Engine Sensor Raw Material

Table 156. Key Manufacturers of Automotive Lambda Engine Sensor Raw Materials

Table 157. Automotive Lambda Engine Sensor Typical Distributors

Table 158. Automotive Lambda Engine Sensor Typical Customers



## List Of Figures

### LIST OF FIGURES

- Figure 1. Automotive Lambda Engine Sensor Picture
- Figure 2. Global Automotive Lambda Engine Sensor Consumption Value by Type, (USD Million), 2018 & 2022 & 2029
- Figure 3. Global Automotive Lambda Engine Sensor Consumption Value Market Share by Type in 2022
- Figure 4. Titania Sensor Examples
- Figure 5. Zirconia Sensor Examples
- Figure 6. Others Examples
- Figure 7. Global Automotive Lambda Engine Sensor Consumption Value by Application, (USD Million), 2018 & 2022 & 2029
- Figure 8. Global Automotive Lambda Engine Sensor Consumption Value Market Share by Application in 2022
- Figure 9. Galvanic Examples
- Figure 10. Infrared Examples
- Figure 11. Ultrasonic Examples
- Figure 12. Laser Technology Examples
- Figure 13. Others Examples
- Figure 14. Global Automotive Lambda Engine Sensor Consumption Value, (USD Million): 2018 & 2022 & 2029
- Figure 15. Global Automotive Lambda Engine Sensor Consumption Value and Forecast (2018-2029) & (USD Million)
- Figure 16. Global Automotive Lambda Engine Sensor Sales Quantity (2018-2029) & (K Units)
- Figure 17. Global Automotive Lambda Engine Sensor Average Price (2018-2029) & (US\$/Unit)
- Figure 18. Global Automotive Lambda Engine Sensor Sales Quantity Market Share by Manufacturer in 2022
- Figure 19. Global Automotive Lambda Engine Sensor Consumption Value Market Share by Manufacturer in 2022
- Figure 20. Producer Shipments of Automotive Lambda Engine Sensor by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2021
- Figure 21. Top 3 Automotive Lambda Engine Sensor Manufacturer (Consumption Value) Market Share in 2022
- Figure 22. Top 6 Automotive Lambda Engine Sensor Manufacturer (Consumption Value) Market Share in 2022

Figure 23. Global Automotive Lambda Engine Sensor Sales Quantity Market Share by Region (2018-2029)

Figure 24. Global Automotive Lambda Engine Sensor Consumption Value Market Share by Region (2018-2029)

Figure 25. North America Automotive Lambda Engine Sensor Consumption Value (2018-2029) & (USD Million)

Figure 26. Europe Automotive Lambda Engine Sensor Consumption Value (2018-2029) & (USD Million)

Figure 27. Asia-Pacific Automotive Lambda Engine Sensor Consumption Value (2018-2029) & (USD Million)

Figure 28. South America Automotive Lambda Engine Sensor Consumption Value (2018-2029) & (USD Million)

Figure 29. Middle East & Africa Automotive Lambda Engine Sensor Consumption Value (2018-2029) & (USD Million)

Figure 30. Global Automotive Lambda Engine Sensor Sales Quantity Market Share by Type (2018-2029)

Figure 31. Global Automotive Lambda Engine Sensor Consumption Value Market Share by Type (2018-2029)

Figure 32. Global Automotive Lambda Engine Sensor Average Price by Type (2018-2029) & (US\$/Unit)

Figure 33. Global Automotive Lambda Engine Sensor Sales Quantity Market Share by Application (2018-2029)

Figure 34. Global Automotive Lambda Engine Sensor Consumption Value Market Share by Application (2018-2029)

Figure 35. Global Automotive Lambda Engine Sensor Average Price by Application (2018-2029) & (US\$/Unit)

Figure 36. North America Automotive Lambda Engine Sensor Sales Quantity Market Share by Type (2018-2029)

Figure 37. North America Automotive Lambda Engine Sensor Sales Quantity Market Share by Application (2018-2029)

Figure 38. North America Automotive Lambda Engine Sensor Sales Quantity Market Share by Country (2018-2029)

Figure 39. North America Automotive Lambda Engine Sensor Consumption Value Market Share by Country (2018-2029)

Figure 40. United States Automotive Lambda Engine Sensor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 41. Canada Automotive Lambda Engine Sensor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 42. Mexico Automotive Lambda Engine Sensor Consumption Value and Growth



Rate (2018-2029) & (USD Million)

Figure 43. Europe Automotive Lambda Engine Sensor Sales Quantity Market Share by Type (2018-2029)

Figure 44. Europe Automotive Lambda Engine Sensor Sales Quantity Market Share by Application (2018-2029)

Figure 45. Europe Automotive Lambda Engine Sensor Sales Quantity Market Share by Country (2018-2029)

Figure 46. Europe Automotive Lambda Engine Sensor Consumption Value Market Share by Country (2018-2029)

Figure 47. Germany Automotive Lambda Engine Sensor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 48. France Automotive Lambda Engine Sensor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 49. United Kingdom Automotive Lambda Engine Sensor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 50. Russia Automotive Lambda Engine Sensor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 51. Italy Automotive Lambda Engine Sensor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 52. Asia-Pacific Automotive Lambda Engine Sensor Sales Quantity Market Share by Type (2018-2029)

Figure 53. Asia-Pacific Automotive Lambda Engine Sensor Sales Quantity Market Share by Application (2018-2029)

Figure 54. Asia-Pacific Automotive Lambda Engine Sensor Sales Quantity Market Share by Region (2018-2029)

Figure 55. Asia-Pacific Automotive Lambda Engine Sensor Consumption Value Market Share by Region (2018-2029)

Figure 56. China Automotive Lambda Engine Sensor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 57. Japan Automotive Lambda Engine Sensor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 58. Korea Automotive Lambda Engine Sensor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 59. India Automotive Lambda Engine Sensor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 60. Southeast Asia Automotive Lambda Engine Sensor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 61. Australia Automotive Lambda Engine Sensor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 62. South America Automotive Lambda Engine Sensor Sales Quantity Market Share by Type (2018-2029)

Figure 63. South America Automotive Lambda Engine Sensor Sales Quantity Market Share by Application (2018-2029)

Figure 64. South America Automotive Lambda Engine Sensor Sales Quantity Market Share by Country (2018-2029)

Figure 65. South America Automotive Lambda Engine Sensor Consumption Value Market Share by Country (2018-2029)

Figure 66. Brazil Automotive Lambda Engine Sensor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 67. Argentina Automotive Lambda Engine Sensor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 68. Middle East & Africa Automotive Lambda Engine Sensor Sales Quantity Market Share by Type (2018-2029)

Figure 69. Middle East & Africa Automotive Lambda Engine Sensor Sales Quantity Market Share by Application (2018-2029)

Figure 70. Middle East & Africa Automotive Lambda Engine Sensor Sales Quantity Market Share by Region (2018-2029)

Figure 71. Middle East & Africa Automotive Lambda Engine Sensor Consumption Value Market Share by Region (2018-2029)

Figure 72. Turkey Automotive Lambda Engine Sensor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 73. Egypt Automotive Lambda Engine Sensor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 74. Saudi Arabia Automotive Lambda Engine Sensor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 75. South Africa Automotive Lambda Engine Sensor Consumption Value and Growth Rate (2018-2029) & (USD Million)

Figure 76. Automotive Lambda Engine Sensor Market Drivers

Figure 77. Automotive Lambda Engine Sensor Market Restraints

Figure 78. Automotive Lambda Engine Sensor Market Trends

Figure 79. Porters Five Forces Analysis

Figure 80. Manufacturing Cost Structure Analysis of Automotive Lambda Engine Sensor in 2022

Figure 81. Manufacturing Process Analysis of Automotive Lambda Engine Sensor

Figure 82. Automotive Lambda Engine Sensor Industrial Chain

Figure 83. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 84. Direct Channel Pros & Cons

Figure 85. Indirect Channel Pros & Cons

Figure 86. Methodology

Figure 87. Research Process and Data Source

## I would like to order

Product name: Global Automotive Lambda Engine Sensor Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

Product link: <https://marketpublishers.com/r/G3DAA7CD30E6EN.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/G3DAA7CD30E6EN.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

