

Global Electric Vehicle Sensors Market Size study, by Vehicle Type (Passenger Vehicles, Commercial Vehicles), by Power Source (Battery Electric Vehicles, Hybrid Electric Vehicles, Plug-In Hybrid Electric Vehicles), by Sensor Type (Temperature Sensors, Current/Voltage Sensors, Pressure Sensors, Position Sensors), by Point of Sale (OEM, Aftermarket) and Regional Forecasts 2022-2032

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Abstracts

Global Electric Vehicle Sensors Market is valued approximately at USD 4.62 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 15.21% over the forecast period 2024-2032. Electric vehicle sensors are pivotal in enhancing operational efficiency, ensuring safety, and enabling advanced features through a complex network of sensors. This technology is crucial for intelligent battery management, optimizing range, and safeguarding critical components such as motors and inverters. The Global Electric Vehicle Sensors Market is undergoing significant expansion driven by the swift adoption of EVs worldwide. Sensors play a critical role in ensuring the functionality and safety of these vehicles by meticulously overseeing battery performance, powertrain components, and facilitating advanced driver assistance systems (ADAS) that revolutionize the driving experience.

The increasing demand for extended driving range, enhanced safety measures, and the evolution toward autonomous driving technologies are driving innovation and capital investment in EV sensor technology. Projections for the market anticipate sustained growth as sensor capabilities advance, optimizing EV efficiency and reliability, and enhancing user-centric features. Moreover, the integration of ADAS, empowered by

sensors such as LiDAR and radar, brings an unprecedented level of safety and lays the foundation for autonomous driving capabilities. The exponential growth of the electric vehicle market necessitates continuous investment in sensor technologies to drive efficiency, reliability, and user-centric innovations. However, infrastructural limitations and regulatory discrepancies is going to impede the overall demand for the market during the forecast period 2024-2032.

The key regions considered for the Global Electric Vehicle Sensors Market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, Asia Pacific is experiencing considerable growth, driven by the rapid adoption of EVs in economically advanced nations such as China, Japan, and India are making significant strides backed by robust government initiatives promoting renewable energy usage. Furthermore, the market in North America is anticipated to develop at the fastest rate over the forecast period 2024-2032.

Major market players included in this report are:

Allegro MicroSystems, Inc

Amphenol Advanced Sensors

ams Osram AG

Analog Devices, Inc.

Denso Corporation

Infineon Technologies AG

Kohshin Electric Corporation

LEM

Zebra Technologies, Inc.

NXP Semiconductors

The detailed segments and sub-segment of the market are explained below:

By Vehicle Type:

Passenger Vehicles

Commercial Vehicles

By Power Source:

Battery Electric Vehicles (BEVs)

Hybrid Electric Vehicles (HEVs)

Plug-In Hybrid Electric Vehicles (PHEVs)

By Sensor Type:

Temperature Sensors

Current/Voltage Sensors

Pressure Sensors

Position Sensors

By Point of Sale:

OEM

Aftermarket

By Region:

North America

U.S.

Canada

Mexico

Europe

Germany

France

Italy

U.K.

Netherlands

Rest-of-Europe

Asia-Pacific

China

Japan

Australia

South Korea

India

Rest-of-Asia-Pacific

Rest-of-the-World

Brazil

U.A.E.

Others

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market

Contents

CHAPTER 1. GLOBAL ELECTRIC VEHICLE SENSORS MARKET EXECUTIVE SUMMARY

- 1.1. Global Electric Vehicle Sensors Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Vehicle Type
 - 1.3.2. By Power Source
 - 1.3.3. By Sensor Type
 - 1.3.4. By Point of Sale
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL ELECTRIC VEHICLE SENSORS MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL ELECTRIC VEHICLE SENSORS MARKET DYNAMICS

3.1. Market Drivers

3.1.1. Increasing Push from Government and Consumers to Develop Safety Features for Vehicles

3.1.2. Rising Adoption of Electric Vehicles

3.1.3. Growing Demand for Autonomous Vehicles

3.2. Market Challenges

3.2.1. Regulatory Discrepancies

3.2.2. Economic Instability

3.2.3. Infrastructural Limitations

3.3. Market Opportunities

3.3.1. Lucrative Promise of Autonomous Electric Vehicles

3.3.2. Continuous Technological Advancements

3.3.3. Growing Focus on Sustainability

CHAPTER 4. GLOBAL ELECTRIC VEHICLE SENSORS MARKET INDUSTRY ANALYSIS

4.1. Porter's 5 Force Model

4.1.1. Bargaining Power of Suppliers

4.1.2. Bargaining Power of Buyers

4.1.3. Threat of New Entrants

4.1.4. Threat of Substitutes

4.1.5. Competitive Rivalry

4.1.6. Futuristic Approach to Porter's 5 Force Model

4.1.7. Porter's 5 Force Impact Analysis

4.2. PESTEL Analysis

4.2.1. Political

4.2.2. Economical

4.2.3. Social

4.2.4. Technological

4.2.5. Environmental

4.2.6. Legal

4.3. Top investment opportunity

4.4. Top winning strategies

4.5. Disruptive Trends

4.6. Industry Expert Perspective

4.7. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL ELECTRIC VEHICLE SENSORS MARKET SIZE & FORECASTS BY VEHICLE TYPE 2022-2032

5.1. Segment Dashboard

5.2. Global Electric Vehicle Sensors Market: Vehicle Type Revenue Trend Analysis, 2022 & 2032 (USD Billion)

5.2.1. Passenger Vehicles

5.2.2. Commercial Vehicles

CHAPTER 6. GLOBAL ELECTRIC VEHICLE SENSORS MARKET SIZE & FORECASTS BY POWER SOURCE 2022-2032

6.1. Segment Dashboard

6.2. Global Electric Vehicle Sensors Market: Power Source Revenue Trend Analysis, 2022 & 2032 (USD Billion)

6.2.1. Battery Electric Vehicles (BEVs)

6.2.2. Hybrid Electric Vehicles (HEVs)

6.2.3. Plug-In Hybrid Electric Vehicles (PHEVs)

CHAPTER 7. GLOBAL ELECTRIC VEHICLE SENSORS MARKET SIZE & FORECASTS BY SENSOR TYPE 2022-2032

7.1. Segment Dashboard

7.2. Global Electric Vehicle Sensors Market: Sensor Type Revenue Trend Analysis, 2022 & 2032 (USD Billion)

7.2.1. Temperature Sensors

7.2.2. Current/Voltage Sensors

7.2.3. Pressure Sensors

7.2.4. Position Sensors

CHAPTER 8. GLOBAL ELECTRIC VEHICLE SENSORS MARKET SIZE & FORECASTS BY POINT OF SALE 2022-2032

8.1. Segment Dashboard

8.2. Global Electric Vehicle Sensors Market: Point of Sale Revenue Trend Analysis, 2022 & 2032 (USD Billion)

8.2.1. OEM

8.2.2. Aftermarket

CHAPTER 9. GLOBAL ELECTRIC VEHICLE SENSORS MARKET SIZE & FORECASTS BY REGION 2022-2032

- 9.1. North America Electric Vehicle Sensors Market
 - 9.1.1. U.S. Electric Vehicle Sensors Market
 - 9.1.1.1. Vehicle Type breakdown size & forecasts, 2022-2032
 - 9.1.1.2. Power Source breakdown size & forecasts, 2022-2032
 - 9.1.1.3. Sensor Type breakdown size & forecasts, 2022-2032
 - 9.1.1.4. Point of Sale breakdown size & forecasts, 2022-2032
 - 9.1.2. Canada Electric Vehicle Sensors Market
 - 9.1.3. Mexico Electric Vehicle Sensors Market
- 9.2. Europe Electric Vehicle Sensors Market
 - 9.2.1. Germany Electric Vehicle Sensors Market
 - 9.2.2. France Electric Vehicle Sensors Market
 - 9.2.3. Italy Electric Vehicle Sensors Market
 - 9.2.4. U.K. Electric Vehicle Sensors Market
 - 9.2.5. Netherlands Electric Vehicle Sensors Market
 - 9.2.6. Rest-of-Europe Electric Vehicle Sensors Market
- 9.3. Asia-Pacific Electric Vehicle Sensors Market
 - 9.3.1. China Electric Vehicle Sensors Market
 - 9.3.2. Japan Electric Vehicle Sensors Market
 - 9.3.3. Australia Electric Vehicle Sensors Market
 - 9.3.4. South Korea Electric Vehicle Sensors Market
 - 9.3.5. India Electric Vehicle Sensors Market
 - 9.3.6. Rest-of-Asia-Pacific Electric Vehicle Sensors Market
- 9.4. Rest-of-the-World Electric Vehicle Sensors Market
 - 9.4.1. Brazil Electric Vehicle Sensors Market
 - 9.4.2. U.A.E. Electric Vehicle Sensors Market
 - 9.4.3. Others Electric Vehicle Sensors Market

CHAPTER 10. COMPETITIVE INTELLIGENCE

- 10.1. Key Company SWOT Analysis
 - 10.1.1. Company
 - 10.1.2. Company
 - 10.1.3. Company
- 10.2. Top Market Strategies
- 10.3. Company Profiles

- 10.3.1. Allegro MicroSystems, Inc.
 - 10.3.1.1. Key Information
 - 10.3.1.2. Overview
 - 10.3.1.3. Financial (Subject to Data Availability)
 - 10.3.1.4. Product Summary
 - 10.3.1.5. Market Strategies
- 10.3.2. Amphenol Advanced Sensors
- 10.3.3. ams Osram AG
- 10.3.4. Analog Devices, Inc.
- 10.3.5. Denso Corporation
- 10.3.6. Infineon Technologies AG
- 10.3.7. Kohshin Electric Corporation
- 10.3.8. LEM
- 10.3.9. Zebra Technologies, Inc.
- 10.3.10. NXP Semiconductors

CHAPTER 11. RESEARCH PROCESS

- 11.1. Research Process
 - 11.1.1. Data Mining
 - 11.1.2. Analysis
 - 11.1.3. Market Estimation
 - 11.1.4. Validation
 - 11.1.5. Publishing
- 11.2. Research Attributes

List Of Tables

LIST OF TABLES

TABLE 1. Global Electric Vehicle Sensors market, report scope

TABLE 2. Global Electric Vehicle Sensors market estimates & forecasts by Region 2022-2032 (USD Billion)

TABLE 3. Global Electric Vehicle Sensors market estimates & forecasts by Vehicle Type 2022-2032 (USD Billion)

TABLE 4. Global Electric Vehicle Sensors market estimates & forecasts by Power Source 2022-2032 (USD Billion)

TABLE 5. Global Electric Vehicle Sensors market estimates & forecasts by Sensor Type 2022-2032 (USD Billion)

TABLE 6. Global Electric Vehicle Sensors market estimates & forecasts by Point of Sale 2022-2032 (USD Billion)

TABLE 7. Global Electric Vehicle Sensors market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 8. Global Electric Vehicle Sensors market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 9. Global Electric Vehicle Sensors market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 10. Global Electric Vehicle Sensors market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 11. Global Electric Vehicle Sensors market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 12. Global Electric Vehicle Sensors market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 13. Global Electric Vehicle Sensors market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 14. Global Electric Vehicle Sensors market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 15. U.S. Electric Vehicle Sensors market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 16. U.S. Electric Vehicle Sensors market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 17. U.S. Electric Vehicle Sensors market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 18. Canada Electric Vehicle Sensors market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 19. Canada Electric Vehicle Sensors market estimates & forecasts by segment
2022-2032 (USD Billion)

TABLE 20. Canada Electric Vehicle Sensors market estimates & forecasts by segment
2022-2032 (USD Billion)

.....

This list is not complete, final report does contain more than 100 tables. The list may be updated in the final deliverable

List Of Figures

LIST OF FIGURES

- FIG 1. Global Electric Vehicle Sensors market, research methodology
- FIG 2. Global Electric Vehicle Sensors market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods
- FIG 4. Global Electric Vehicle Sensors market, key trends 2023
- FIG 5. Global Electric Vehicle Sensors market, growth prospects 2022-2032
- FIG 6. Global Electric Vehicle Sensors market, porters 5 force model
- FIG 7. Global Electric Vehicle Sensors market, PESTEL analysis
- FIG 8. Global Electric Vehicle Sensors market, value chain analysis
- FIG 9. Global Electric Vehicle Sensors market by segment, 2022 & 2032 (USD Billion)
- FIG 10. Global Electric Vehicle Sensors market by segment, 2022 & 2032 (USD Billion)
- FIG 11. Global Electric Vehicle Sensors market by segment, 2022 & 2032 (USD Billion)
- FIG 12. Global Electric Vehicle Sensors market by segment, 2022 & 2032 (USD Billion)
- FIG 13. Global Electric Vehicle Sensors market by segment, 2022 & 2032 (USD Billion)
- FIG 14. Global Electric Vehicle Sensors market, regional snapshot 2022 & 2032
- FIG 15. North America Electric Vehicle Sensors market 2022 & 2032 (USD Billion)
- FIG 16. Europe Electric Vehicle Sensors market 2022 & 2032 (USD Billion)
- FIG 17. Asia pacific Electric Vehicle Sensors market 2022 & 2032 (USD Billion)
- FIG 18. Latin America Electric Vehicle Sensors market 2022 & 2032 (USD Billion)
- FIG 19. Middle East & Africa Electric Vehicle Sensors market 2022 & 2032 (USD Billion)
- FIG 20. Global Electric Vehicle Sensors market, company market share analysis (2023)

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