

Global Current Sensors for Automotive Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Current Sensors for Automotive market size was valued at USD 414.7 million in 2023 and is forecast to a readjusted size of USD 1130.7 million by 2030 with a CAGR of 15.4% during review period.

A current sensor is a sensor that will measure the intensity of the current flowing in electrical conductors. Hybrid electric vehicles (HEV) and electric vehicles (EV) continue to gain share in the overall global automotive market. The battery management system (BMS) for these vehicles carries out the important tasks of keeping the battery operating inside the safe operating area (SOA), monitoring power distribution, and keeping track of the state of charge (SoC). When the battery is the main source of energy for systems in HEVs/EVs, it is essential to have information about its charging and discharging cycles. Current sensors are the main source of information for charging and discharging cycle information by reporting the status of battery SOH to the battery management system. They may be located onboard or externally. For a typical battery, current sensors measure the current flowing into (when charging) or out of (when discharging) the battery.

Global key players of current sensors for automotive include LEM Holding SA, Allegro Microsystems, LLC, Melexis NV, TDK Micronas, Honeywell International Inc., etc. The top five players hold a share over 57%. Europe is the largest producer of current sensors for automotive, holds a share over 32 percent. In terms of product type, Hall Based Current Sensor is the largest segment, occupied for a share of 60%, and in terms of application, Gas Vehicle has a share about 58 percent.

The Global Info Research report includes an overview of the development of the Current Sensors for Automotive industry chain, the market status of Gas Vehicle (Hall Based Current Sensor, Shunt Based Current Sensor), Electric Vehicle (Hall Based Current Sensor, Shunt Based Current Sensor), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Current Sensors for Automotive.

Regionally, the report analyzes the Current Sensors for Automotive 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 Current Sensors for Automotive market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Current Sensors for Automotive 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 Current Sensors for Automotive 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 (M Units), revenue generated, and market share of different by Type (e.g., Hall Based Current Sensor, Shunt Based Current Sensor).

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 Current Sensors for Automotive market.

Regional Analysis: The report involves examining the Current Sensors for Automotive 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 Current Sensors for Automotive market. This may

include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Current Sensors for Automotive:

Company Analysis: Report covers individual Current Sensors for Automotive 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 Current Sensors for Automotive. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Gas Vehicle, Electric Vehicle).

Technology Analysis: Report covers specific technologies relevant to Current Sensors for Automotive. It assesses the current state, advancements, and potential future developments in Current Sensors for Automotive areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Current Sensors for Automotive 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

Current Sensors for Automotive 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

Hall Based Current Sensor

Shunt Based Current Sensor

Others

Market segment by Application

Gas Vehicle

Electric Vehicle

Major players covered

LEM Holding SA

Allegro Microsystems, LLC

Melexis NV

TDK Micronas

Honeywell International Inc.

Robert Bosch GmbH

DENSO

Continental

Kohshin Electric Corporation

Infineon

Nicera

BYD

CRRC

Sinomags Electrical

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 Current Sensors for Automotive product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Current Sensors for Automotive, with price, sales, revenue and global market share of Current Sensors for Automotive from 2019 to 2024.

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

Chapter 4, the Current Sensors for Automotive 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 Current Sensors for Automotive 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 Current Sensors for Automotive.

Chapter 14 and 15, to describe Current Sensors for Automotive sales channel, distributors, customers, research findings and conclusion.

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