Global Automotive Emission Sensor Market 2015-2019

Description: Market landscape of the automotive emission sensors

Pollution from automobiles has been a critical issue across the globe with nitrogen oxides, carbon monoxide acting as the two principle gases causing air pollution, thereby increasing environment and health concerns. It has led to significant research and development on technologies that reduce emission. It has in turn led to the development of gas sensors, which can monitor and control vehicle emission.

Automotive emission sensors is widely used in all types of automobiles from passenger cars to heavy commercial vehicles. Oxygen sensors and Nitrogen oxide sensors are the widely used sensors in modern vehicles today. Among these gas sensors, adoption of oxygen sensors is found in almost all automobiles manufactured today.

Market segmentation covered in the report:

Research scope of the global automatic emission sensor market

To calculate the market size, The market research analysts have considered revenues generated from the sale of the aforementioned sensors for passenger cars, light commercial vehicles (LCVs), and heavy commercial vehicles. The global automotive emission sensors market is expected to reach around USD 13 billion by 2019.

The growth in the automotive emissions sensors market can be attributed to the implementation of tougher and stricter emission norms across the world. The increase in auto sales across the globe fosters the growing adoption of emission sensors in vehicles. With countries like China and India adopting emission norms equivalent to US and EU, utilization of emission sensors in these regions is expected to increase in the next four years.

Upcoming trends, drivers, and challenges

Increased demand for smart emission sensors has led to the development of oxygen sensors which come with a heating element. It makes sensors react immediately as soon as the engine is ignited. These smart sensors come with a in-built heater, which heats up the sensors to the required operating temperature. This action decreases the reaction time and reduces contact of exhaust gases with ceramic bulbs. This trend is expected to result in a gradual increase in the life time of sensors as they are less prone to contaminants.

The increased demand for more reliable technology by customers and automobile manufactures has resulted in manufacturers investing on R&D to develop technologically advanced emission sensors to meet emission standards and demands of OEMs and customers. For instance, narrowband O2 sensors are the widely used sensors in vehicles today.

However, the increasing demand for BEVs will have a negative impact on the automotive emission sensor market with an increasing adoption in ICE and to some extent in hybrid electric vehicles in the leading markets.

The leading vendors analyzed by this report

Bosch
Denso
Tenneco
Faurecia

The other prominent vendors of this market are Delphi, Continental, Hyundai KEFICO, NGK Spark Plug, and Sensata.

Key questions answered in the report

Market share analysis of the key vendors of the automotive emission sensors market
What are the key factors driving the automotive emission sensors market
What are the Key market trends impacting the growth of the automotive emission sensors market
What are the various opportunities and threats faced by the vendors in automotive emission sensors market
Trending factors influencing the market shares for EMEA, APAC, and Americas
Key outcome of the five forces analysis on the automotive emission sensors market
Growth forecast of the automotive emission sensors market until 2019

Contents:
Table of Contents

PART 01: Executive summary
Highlights

PART 02: Scope of the report
Market overview
Top-vendor offerings

PART 03: Market research methodology
Research methodology
Economic indicators

PART 04: Introduction
Key market highlights
O2 sensors
NOx sensors

PART 05: Market landscape
Market overview
Market size and forecast
Five forces analysis

PART 06: Market segmentation by type
Global automotive O2 emission sensors market 2015-2019
Global automotive NOx emission sensor market 2015-2019

PART 07: Geographical segmentation
Automotive emission sensors market in APAC
Automotive emission sensors market in Americas
Automotive emission sensors market in EMEA

PART 08: Market drivers

PART 09: Impact of drivers

PART 10: Market challenges

PART 11: Impact of drivers and challenges

PART 12: Market trends

PART 13: Vendor landscape
Competitive scenario
Other prominent vendors

PART 14: Key vendor analysis
Bosch Auto
PARTs
Denso
Faurecia
Tenneco

PART 15: Appendix
List of abbreviation
PART 16: About the Author

List of Exhibits
Exhibit 01: Product offerings
Exhibit 02: Emission sensor types
Exhibit 03: Global automotive emission sensors market segmentation
Exhibit 04: Five forces analysis
Exhibit 05: Global automotive emission sensors market segmentation by type 2014-2019 ($ billions)
Exhibit 06: Global automotive O2 emission sensors market 2014-2019 ($ billions)
Exhibit 07: Global automotive NOx emission sensors market 2014-2019 ($ billions)
Exhibit 08: Global automotive emission sensors market revenue segmentation by geography 2014
Exhibit 09: Global automotive emission sensors market in APAC 2014-2019 ($ billions)
Exhibit 10: Global automotive emission sensors market in Americas 2014-2019 ($ billions)
Exhibit 11: Global automotive emission sensors market in EMEA 2014-2019 ($ billions)
Exhibit 12: EU emission standards and limits
Exhibit 13: Impact of drivers
Exhibit 14: Changes in emission standards in different regions for passenger cars
Exhibit 15: Impact of drivers and challenges
Exhibit 16: Top vendors of automotive emission sensors market
Exhibit 17: Bosch Auto
PARTs: Product segmentation
Exhibit 18: Denso: Business segmentation by revenue 2015
Exhibit 19: Denso: Business segmentation by revenue 2014 and 2015 ($ billions)
Exhibit 20: Denso: Geographical segmentation by revenue 2015
Exhibit 21: Faurecia: Business segmentation by revenue 2014
Exhibit 22: Faurecia: Business segmentation by revenue 2013 and 2014 ($ billions)
Exhibit 23: Faurecia: Geographical segmentation by revenue 2014
Exhibit 24: Faurecia: Product sales by customers by revenue 2014
Exhibit 25: Tenneco: Business segmentation by revenue 2014
Exhibit 26: Tenneco: Business segmentation by revenue 2013 and 2014 ($ billions)
Exhibit 27: Tenneco: Geographical segmentation by revenue 2014

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