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
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