

Automotive Sensors: Trends & Forecasts to 2020



As the electronic content in vehicles increases, demand for automotive sensor applications will continue to grow unabated. While certain types of sensors such as oil pressure, coolant temperature, vehicle speed and fuel level sensors have long been featured inside vehicles, new applications are emerging, particularly in engine management and safety-related areas.

Overall, demand for sensors is driven by the need to build cleaner, safer, more reliable, fuel efficient, convenient, and comfortable cars. But cost is also a major consideration.

In this second edition reviewing the key market drivers for automotive sensors, we extend and update the analysis originally published in 2004, and review the trends in the intervening eight years. It provides an authoritative overview of the technology issues (both present and future) as well as detailed market information for each of the sensor categories covered.

This exclusive report from ABOUT Automotive focuses on the following key areas:

- MEMS (micro electromechanical systems) technology
- Pressure sensors
- Magnetic sensors
- Radar and camera sensors
- Gas sensors
- Inertial sensors (accelerometers and gyroscopes)

Report coverage

Chapter two sets out product trends and forecast fitment levels for various types of sensors used in passenger cars in each major vehicle producing region through 2020.

Chapters three through eight examine major trends and market estimates for MEMS, Pressure, Magnetic, Radar & Camera, Gas and Inertial sensors.

Chapter nine provides an overview of additional automotive sensor applications.

Chapter ten lists the major manufacturers of automotive sensors.

The report provides answers to such vital questions as:

- What will be the value of the automotive sensor market by the year 2020?
- Which new sensor applications are emerging, and how strong is their growth potential?
- To what extent is MEMS emerging as the primary future technology in the sensor market?
- Will government legislation significantly affect future demand for radar and camera based safety systems?
- Who are the leading market participants in each automotive sensor sector?

Published: January 2013 Price: £495 No. pages: 40 Format: PDF

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