Passenger Car Sensors Market by Application, by Sensor Type & by Geography - Trends & Forecast to 2019

Description: Passenger Car Sensors Market by Application (Powertrain/Drivetrain, Exhaust, Interior/Comfort, DAS, & Body Control), by Sensor Type (Pressure, Temperature, Speed, O2/NOx, Position, & Others) & by Geography - Trends & Forecast to 2019

The use of sensors in automotive industry has rapidly increased in the last few decades. The first sensors made for a car were to manage the engine. By the 1960's, it became a widespread practice in passenger cars. The introduction of federal emission norms gave a boost to this market making it essential for the Original Equipment Manufacturers (OEMs) to strike a balance between government regulations, manufacturability, and robustness. This required the systems to be equipped with new and precise sensors, such as the Manifold Absolute Pressure (MAP), air fuel ratio sensors, and others. Since then, the sensors used in automobiles have evolved and have catapulted the complexity of vehicle electronics to new heights. Precise measurements and quick data analysis has paved the way for technologies which have helped automotive OEMs cope with the increased pressure from the governments. For Example, the number of sensors used in engine control application has increased from 10 in 1995 to more than 60 in 2013.

The application of passenger car sensors can be widely categorized under five categories which are power train/drive train, body control, exhaust, interior/comfort, and Advanced Driver Assist Systems (ADAS).

Powertrain/drivetrain applications of sensors were the first wave of passenger car sensors. These sensors were widely used in engines, transmissions, and onboard diagnostics. The increased use of these sensors can be attributed to the customers’ demand for these, the requirements of the OEM's to differentiate their products with different features and conform to government legislations.

The second-wave of the sensors market can be considered as the development of sensors in the body control system which includes the application of sensors in the steering, suspensions, braking, and stability. The market for sensors in the area of body control has increased due to factors such as stringent safety regulations, weight reduction, and multiplex compatibility. On the other hand, market for sensors used in interior and comfort systems, and ADAS are mainly driven by the customers demand for comfort, convenience, and safety.

The report covers the market for passenger car sensors segmented by geography (Asia-Pacific, Europe, North America, and ROW), by application (powertrain/drivetrain, body control, exhaust, interior/comfort, and Advanced Driver Assist System (ADAS)), and by sensor type (position sensors, pressure sensors, temperature sensors, speed sensors, NOX /O2 sensors).

Technologies such as ABS, ESC, and TPMS demand robustness and accuracy, as the slightest of errors in these sensors can be the difference between safety and mishaps. The regulations in North America, Japan, China and South Korea majorly drive the sensor market making these countries a booming market for passenger car sensors. The stringent regulations also make room for advanced features such as tire pressure monitoring systems, electronic stability control, occupant detection, and others which in turn drives the sensors' market. The convenience application and information systems are also increasing as a result of the increasing demand by the customers. The increasing demand for complex infotainment systems from the consumers has led to OEMs employing various new sensors in conjunction with the conventional ones. These sensors include GPS sensors, humidity sensors, adaptive lighting sensors, and others.

The report covers the market for passenger car sensors segmented by geography (Asia-Pacific, Europe, North America, and ROW), by application (powertrain/drivetrain, body control, exhaust, interior/comfort, and Driver Assist System (DAS)), and by sensor type (position sensors, pressure sensors, temperature sensors, speed sensors, NOX /O2 sensors, and others). The report also features the profiles of key players of passenger car sensors market covering their market share, financial information, products and services and further insight on their recent market developments and strategies.
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