

Level Sensor Market Analysis By Technology (Contact Type/Point Level, Non-Contact Type/Continuous Level), By Application (Automotive, Consumer Electronics, Healthcare, Dry Bulk, Oil & Gas), And Segment Forecasts, 2014 - 2025

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Abstracts

The global level sensor market is anticipated to reach USD 5.48 billion by 2025, according to a new report by Grand View Research, Inc. The food industry has traditionally lagged behind other industries in adopting new technologies. However, growing advancements in computer technology, coupled with stringent regulations for improved food quality and safety, have resulted in the rising need to automate manufacturing processes, thereby leading to an increased demand for level sensors in the food processing industry.

The production and processing of food and beverages are governed by networks of law codes, practices, regulations, and guidance to reduce the risk of delivering potentially harmful products to consumers. In food processing industries, the pressure and level measurement are required in the filter, tanks, and piping. Pressure instruments include numerous applications, such as maintaining the balance of silos, storage tanks, flavor systems, filling machines, mixing processes, and pasteurization, among others.

Micro-Electro-Mechanical Systems (MEMS), a part of non-contact type sensors, is expected to witness considerable growth over the projected period. MEMS sensors are expected to play a key role in the automotive safety and infotainment applications. The need for higher accuracy, rapid data transmission, and self-test capabilities are the key factors driving the demand for MEMS in automotive applications.

Nanotechnology-enabled sensors are offering physical, chemical, and biological

sensing features that enable an increased level of detection specificity, portability, and sensitivity for a wide range of safety and environmental measurements. The U.S. National Nanotechnology Initiative (NNI) recognizes the considerable potential for nanotechnology, which has triggered the development of portable devices that can rapidly detect, quantify, and identify chemical and biological substances.

NNI has launched Nanotechnology Signature Initiatives (NSI) that is integrated with NNI to explore the use of nanotechnology for the following:

To overcome technical barriers associated with conventional sensors, nanotechnology and nanoscale materials are used to build more accurate, sensitive, and adaptable sensors.

New sensors are being developed to detect engineered nanomaterials across their lifecycles to assess their potential impact on health, environment, and safety.

Compliance with regulations and standards in the food & beverage industry is the most demanding challenge for measuring instruments and sensors. Product design must comply with industry guidelines issued by the Food and Drug Administration (FDA). Programmable measuring instruments and specialized accessories are likely to drive the market demand over the forecast period.

Further key findings from the report suggest:

The growing development of nanotechnology sensors is likely to influence the market growth over the forecast period.

The non-contact type technology is anticipated to witness significant growth with a CAGR of over 7.1% over the projected period.

Dry bulk level sensors are used as a full indicator in silos for the storage of grain, as a jam detector in the discharge hopper of a spiral conveyor for grain, and as level controller in the flour silos of large bakeries.

The North American market is anticipated to dominate the level sensor in terms of revenue in 2016

The prevailing large existing consumer base and government initiatives to control carbon emissions are the key factors driving the North American regional growth.

Asia Pacific is expected to portray the highest growth over the forecast period as it is the major hub for refineries and chemical and petrochemical processing units.

The key players in the market include Gems Sensors & Control, Inc. (U.S.), BinMaster, Inc. (U.S.), Bindiicator (U.S.) Honeywell International, Inc (U.S.).

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