

Pressure Sensor Market Size Analysis - Market Share, Forecast Trends and Outlook Report 2025-2034

Market Report | 2025-08-11 | 151 pages | EMR Inc.

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Report description:

The global pressure sensor market stood at a value of around USD 18.57 Billion in 2024. The market is further expected to grow at a CAGR of 10.30% in the forecast period of 2025-2034 to attain a value of nearly USD 49.50 Billion by 2034.

Increasing Demand for Absolute Pressure Sensors to Aid the Global Pressure Sensor Industry Growth

Based on type, the absolute pressure sensor segment is expected to hold a significant share in the global pressure sensor industry during the forecast period. This growth can be attributed to the increased usage of absolute sensors in the measurement process of barometric pressure and atmospheric pressure in the aviation industry. In addition, these sensors are useful in vacuum pressure packaging of food products in the food and beverage industry. These factors are estimated to provide a thrust to the overall growth of the pressure sensor industry.

The Asia Pacific Region to Account for a Substantial Market Share in the Global Pressure Sensor Industry

The Asia Pacific region is predicted to occupy a considerable share of the global pressure sensor industry. This surge can be attributed to the increasing investments by the leading manufacturers to develop and expand the use of pressure sensors in various industry verticals, such as the automobile, medical, petrochemical industry, and others in the region. In addition, growing demand for appliances utilising pressure sensors such as washing machines, refrigerators, oxygen concentrators, and others are also expected to contribute to the overall market growth in the forecast period.

Pressure Sensor: Market Segmentation

Pressure is the applied force by a liquid or gas on an area, which is then measured by a pressure sensor. Pressure sensors have a pressure-sensitive element that helps determine the pressure levels and then convert this information into an output electric

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signal. These instruments are distinguished based on the type of pressure measurement, the applied sensing principle, and the output signal. They are utilised in appliances such as vacuum cleaners, automobiles, and ventilation systems, among others.

By type, the market is divided into:

- Absolute Pressure Sensor
- Gauge Pressure Sensor
- Differential Pressure Sensor

On the basis of technology, the industry can be categorised into:

- Piezoresistive
- Electromagnetic
- Capacitive
- Resonant Solid State
- Optical
- Others

Based on application, the market can be segmented into:

- Automotive
- Oil and Gas
- Consumer Electronics
- Medical
- Industrial

The regional markets for the product include:

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Rapid Technological Advancements to Catalyse the Growth of the Global Pressure Sensor Industry

The increased implementation of IoT (Internet of things) solutions is a major factor in spearheading the pressure sensor industry growth globally. Pressure sensors are being utilised to create smart homes and other wearable devices such as smartwatches and biosensors that help consumers track their health status, such as their bpm levels and oxygen levels. Moreover, with rapid industrialisation and technological growth, pressure sensors are being developed by utilising micro-electro-mechanical systems (MEMS) and nano-electro-mechanical systems (NEMS), making them suitable in biomedical applications and wireless communication solutions, among others. In addition, pressure sensors are being exceedingly used in the automotive sector, as they help in the deployment of passenger safety applications such as tire pressure monitoring (TPMS) and advanced driver assistance systems (ADAS).

In May 2021, BD|SENSORS GmbH launched a compact electronic pressure switch for mobile hydraulics to increase mobile machines' operational safety and efficiency, such as cranes and harvesters. Such developments by the key industry players are

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expected to aid the market growth in the forecast period.

Key Industry Players in the Global Pressure Sensor Market

The report gives a detailed analysis of the following key players in the global pressure sensor market, covering their competitive landscape, capacity, and latest developments like mergers, acquisitions, and investments, expansions of capacity, and plant turnarounds:

- Honeywell International Inc.
- Emerson Electric Co.
- Sensata Technology Inc.
- BD|SENSORS GmbH
- ChampionX Corporation
- Others

The comprehensive EMR report provides an in-depth assessment of the industry based on the Porter's five forces model and SWOT analysis.

More Insights On

Current Sensor Market

Humidity Sensor Market

Fingerprint Sensor Market

Optical Sensor Market

Vibration Sensor Market

Motion Sensor Market

Position Sensor Market

Laser Sensor Market

Photoelectric Sensor Market

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