Global Industrial Sensors Market – Sensor Types, Functionality Types and End-Use Sectors

"The report reviews, analyzes and projects the global market for Industrial Sensors for the period 2020-2029. The market for Industrial Sensor types studied in this report includes Accelerometers, Flow Sensors, Force Sensors, Gas Sensors, Humidity Sensors, Image Sensors, Level Sensors, Optical Sensors, Position Sensors, Pressure Sensors, Proximity Sensors, Temperature Sensors and Touch Sensors. End-use sectors studied include Aerospace & Defense, Automotive, Chemicals, Electronics, Energy & Power, IT & Telecom, Manufacturing, Mining, Oil & Gas and Pharmaceutical"

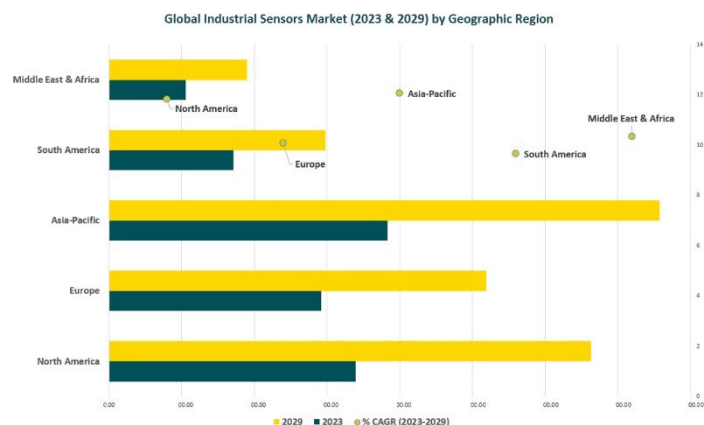Published: February 2024
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Report Synopsis

Industrial sensors offer the capability of perceiving a physical quantity at the input point and transmitting an equivalent electrical output at the output point. Sensors, being devices that convert one form of energy into another, are considered to be transducers. In simple terms, sensors are able to detect their surroundings and transform that input into an output capable of being comprehended by a computer or a process controller. Irrespective of complexity, the role played by industrial sensors in virtually every modern manufacturing process is highly significant, owing to which it is inconceivable to imagine an automated system without sensors.

A shift towards the concept of Industry 4.0 and wider automation protocols has propelled the use of sensors in various manufacturing operations, as these devices enable in maximizing efficiency of operations and also increasing production uptime. With growth in demand for industrial automation, a subsequent rise in sensor deployment across various stages of manufacturing and product control has become vital.

North America, Europe and Asia-Pacific account for nearly 80% of the global market for Industrial Sensors based on type and functionality. Among these, Asia-Pacific is likely to emerge as the fastest growing market, with an expected CAGR of over 12% during the analysis period. This can be attributed to increasing technological advancements and rapid industrialization, plus to fact that the region has for long been the hub of electronics manufacturing, and the use of sensors in this area is widespread.

Global Industrial Sensors Market (2023 & 2029) by Geographic Region

Source: Industry Experts, Inc. https://industry-experts.com

Research Findings & Coverage

- Global market for Industrial Sensors is analyzed in this report with respect to sensor types, functionality types, end-use industries, major geographic regions and key countries
- The market share analysis covered for Industrial Sensors based on the segmentation mentioned above; current market size estimation, revenue projections for the analysis period provided through 2029
- The report includes an extensive analysis of the market for more than 10 sensor types and 10 end-use industries with market share illustrations at regular intervals along the study period
- The study discusses major growth trends, R&D, technology updates and emerging applications of Industrial Sensors that influence the market growth
- Key business trends focusing on product innovations/developments, capacity expansions, M&As, JVs and other recent industry developments by the major players
- The report includes 242 data tables covering market numbers by segment and regions with graphical representation for each table
- Brief business profiles of major companies covered – 34
- The industry guide includes the contact details for 321 companies

Product Outline

The market for types of Industrial Sensors analyzed in this report including:

- Accelerometers
- Flow Sensors
- Force Sensors
- Gas Sensors
- Humidity Sensors
- Image Sensors
- Level Sensors
- Optical Sensors
- Position Sensors
- Pressure Sensors
- Proximity Sensors
- Temperature Sensors
- Touch Sensors

Functionality types of Industrial Sensors market analyzed in this report consist the following:

- Contact Sensors
- Contactless Sensors

The report analyzes the market for end-use industries of Industrial Sensors comprises:

- Aerospace & Defense
- Automotive
- Chemical
- Electronics
- Energy & Power
- IT & Telecom
- Manufacturing
- Mining
- Oil & Gas
- Pharmaceutical

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Analysis Period, Units and Growth Rates

- The report reviews, analyzes and projects the global Engineering Plastics market for the period 2020-2029 in terms of value in US$ and the compound annual growth rates (CAGRs) projected from 2023 through 2029

Geographic Coverage

- **North America** (The United States, Canada and Mexico)
- **Europe** (France, Germany, Italy, Russia, Spain, United Kingdom and Rest of Europe)
- **Asia-Pacific** (China, India, Japan, South Korea and Rest of Asia-Pacific)
- **South America** (Argentina, Brazil and Rest of South America)
- **Middle East & African**

SAMPLE COMPANY PROFILE

BOSCH SENSORTECH GMBH (GERMANY)

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Email: contact@bosch-sensortec.com
Website: www.bosch-sensortec.com

Business Overview

Established in 2005, and headquartered in Germany, Bosch Sensortech GmbH is an operating subsidiary of Robert Bosch GmbH. Primarily engaged in the development, production, and sales of microelectromechanical systems (MEMS) sensors and solutions, the company stands at the forefront of MEMS technology. Bosch Sensortec is a globally leading innovator of sensing solutions based on MEMS and catering wholly to consumer electronics. The company's products finds applications in Smartphones & tablets, Hearables, Wearables, Drones, Robots, AR & VR, Smart home, Gaming & toys, Industrial applications. In addition to the extensive portfolio comprising motion sensors such as 3-axis accelerometers, gyroscopes, magnetometers, integrated 6- and 9-axis sensors, smart sensors, and environmental sensors for measuring barometric pressure, temperature, humidity and gases, Bosch offers optical microsystems and a wide range of software and tools.

Products

Bosch Sensortec offers MEMS-based sensors across several categories including Motion sensors such as Accelerometers, Magnetometers, and Inertial measurement units (IMUs); Environmental sensors such as Pressure sensors, Humidity sensors, Gas sensors, and Particulate matter sensor; Smart sensor systems, including Sensor nodes, Programmable sensor systems, and AI sensor systems; Display solutions consisting Bosch Smartglasses Light Drive system; and Acoustic microsystems comprising MEMS microspeakers.

SAMPLE TABLE/CHART

Glance at 2020, 2023 and 2029 Global Industrial Sensors Market Share (%) by Type – Accelerometers, Flow Sensors, Force Sensors, Gas Sensors, Humidity Sensors, Image Sensors, Level Sensors, Optical Sensors, Position Sensors, Pressure Sensors, Proximity Sensors, Temperature Sensors and Touch Sensors

Global Flow Sensors Market Analysis (2020-2029) by Geographic Region – North America, Europe, Asia-Pacific, South America and Middle East & Africa in USD Million

KEY PLAYERS PROFILED

- ABB Limited (Switzerland)
- AMETEK, Inc. (United States)
- Amphenol Corporation (United States)
- ams-OSRAM AG (Austria)
- FineTek Co., Ltd. (Taiwan)
- Azbil Corporation (Japan)
- Balluff GmbH (Germany)
- Baumer Holding AG (Switzerland)
- Bosch Sensortech GmbH (Germany)
- CTS Corporation (United States)
- Denso Corporation (Japan)
- Dwyer Instruments LLC (United States)
- E+E Elektronik Ges.m.b.H (Austria)
- Endress+Hauser Group Services AG (Switzerland)
- Fortive Corporation (United States)
- Gefran S.p.A. (Italy)
- Hans Turck GmbH & Co. KG (Germany)

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Business intelligence provides the critical link between comprehending prevailing market conditions and devising strategies to maximize parameters, such as revenues, profits and return on investment in order to gain market share. The significance of market research can be largely understood through the range of factors that impact businesses. These can comprise market size (current and projected), geographic market reach and demand and supply scenario, to name a few. Our ongoing quest to collect up to date and accurate information by conducting online surveys, personal interviews, and taking the opinions of senior level executives will enable us to serve our clients better in every possible aspect.

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