

Smart Sensors Market Research

FIVE-YEAR MARKET ANALYSIS AND TECHNOLOGY FORECAST THROUGH 2022

NEED FOR ACCURACY, INSTRUMENT EFFICIENCY, AND SAFETY DRIVES GROWTH

Smart sensors are typically characterized by on-board intelligence and the ability to communicate via a digital network. With the emergence of both Internet of Things (IoT) and Industrial IoT, new sensors and associated applications are emerging every day. Increasingly, these sensors are “smart,” a requirement for IoT sensors as well as for many industrial applications.

This report focuses on smart sensors of many types, including proximity, photoelectric, pressure, temperature, flow, level, vibration, position, and force. The report is also further segmented into sensor interface types, including CANopen, Ethernet/IP, Foundation Fieldbus, HART, IO-Link, Modbus, Profibus PA, and PROFINET.

Currently the smart sensors market is dominated by field instrumentation and the process industries. The major applications for smart sensors vary across industries. The chemical, oil & gas, and nuclear power generation industries need sensors to manage highly critical processes. The electric power industry also requires sensors to manage geographically large power transmission and distribution systems. In these types of critical infrastructures, standards have been developed to address communication, interoperability, reliability, calibration, security, and accuracy for smart sensors.

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STRATEGIC ISSUES

The adoption of wireless field-mounted sensors is likely to affect the dynamics of the smart sensors market, especially for pressure transmitters, flowmeters, and other field-mounted sensors. The report addresses key questions, such as:

- What role will Industrial IoT and device intelligence play in furthering market growth?
- Which emerging and developed economies are likely to drive growth?
- How will web-enabled procurement impact the total market?

RESEARCH FORMATS

This research is available as a Market Intelligence Workbook (Excel) and/or a concise, executive-level Market Analysis Report (PDF), with or without detailed charts.

RESEARCH FOCUS AREAS

STRATEGIC ANALYSIS

Major, Regional, and Industry Trends
Strategic Recommendations

COMPETITIVE ANALYSIS

Market Shares of the Leading Suppliers

Market Shares by Region

North America

Europe, Middle East, Africa

Asia

Latin America

Market Shares by Revenue Category

Hardware

Software

Services

Market Shares by Industry

Aerospace & Defense

Automotive

Chemical/Petrochemical

Electric Power Generation

Electronics & Electrical

Food & Beverage

Machinery

Metals

Mining

Oil & Gas

Pharmaceutical & Biotech

Pulp & Paper

Refining

Water & Wastewater

Market Shares by Sensor Type

Flow

Force

Level

Photoelectric

Position

Pressure

Proximity

Temperature

Vibration

Market Shares by Interface Type

Market Shares by Technology

Market Shares by Transmission Method

MARKET FORECASTS

Total Shipments of Smart Sensors

Shipments by Region

Shipments by Revenue Category

Shipments by Industry

Shipments by Sensor Type

Shipments by Interface Type

Shipments by Technology

Shipments by Transmission Method

Shipments by Customer Type

Shipments by Sales Channel

INDUSTRY PARTICIPANTS

The research identifies all relevant suppliers serving this market.

