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Wireless Sensor Networks (WSN) - Global Market Outlook (2017-2026)

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Abstracts

According to Stratistics MRC, the Global Wireless Sensor Networks (WSN) Market is expected to grow at a CAGR of 19.7% during the forecast period. Growing adoption of wireless technologies and reducing the cost of wireless sensors are some of the factors propelling market growth. However, high installation costs are hindering the market growth.

Wireless Sensor Networks (WSNs) can be defined as a self-configured and infrastructure-less wireless network to monitor physical or environmental conditions. A sink or base station acts as an interface between users and the network. Typically a wireless sensor network contains hundreds of thousands of sensor nodes.

Based on Type, the Underwater WSN segment is anticipated to witness the highest growth during the forecast period due to the Underwater Wireless Sensor Networks (UWSNs) contains several components such as vehicles and sensors that are deployed in a specific acoustic area to perform collaborative monitoring and data collection tasks. On the basis of geography, North America has the highest market growth during the forecast period. Factors such as the adoption of smart factories, intelligent mechanized, and the presence of many network manufacturers are expected to drive the growth of the North American market in the near future.

Some of the key players profiled in the Wireless Sensor Networks (WSN) Market include Toshiba Corp (USA), ABB Ltd., Yokogawa Electric Corporation, Texas Instruments Inc., Stmicro electronics, Siemens AG, Huawei Investment & Holding Co., Ltd., Honeywell International Inc, Hitachi, Ltd, General Electric, Freescale Semiconductor Inc, Episensor Ltd., Endress+Hauser Consult AG, Emerson Electric Co, Chevron Corporation, Atmel Corporation and Ambient Micro.

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Sensors Covered:

- Temperature Sensor
- Accelerometers
- Proximity
- Pressure Sensor
- Motion & Position Sensor
- Level Sensor
- Inertial Measurement Units (IMU)
- Image & Surveillance Sensor
- Humidity Sensor
- Heart Rate Sensors
- Flow Sensor
- Chemical & Gas Sensor
- Blood Glucose Sensors
- Ambient Light Sensors
- Complementary Metal–Oxide–Semiconductor (CMOS) Based Sensors
- Micro-Electro-Mechanical Systems (MEMS)
- Light-Emitting Diode (LED) Sensors
- Other Sensors

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Technologies Covered:

- Wireless HART
- Bluetooth & Bluetooth Smart
- Wi-Fi And WLAN
- Enocean
- ISA100.11a
- Zigbee
- Z-Wave
- Dash 7
- IPv6
- Other Technologies

Topologies Covered:

- Star
- Mesh
- Hybrid
- Tree

Products Covered:

- Software
- Services

Hardware

Types Covered:

Underwater WSN

Underground WSN

Terrestrial WSN

Multimedia WSN

Mobile WSN

Other Types

Channels Covered:

Direct Sales

Distributor

Applications Covered:

Wildlife Instrumentation

Wearable Devices

Sensor and Robots

Nanoscopic sensing

Habitat Monitoring

Highway Monitoring

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Civil and Environmental Engineering

Agriculture

Automation

Healthcare

Other Applications

End Users Covered:

Food & Beverages

Banking, Financial Services and Insurance (BFSI)

Aerospace & Defense

Military And Homeland Security

Automotive and Manufacturing

Medical and Pharmaceuticals

Metal and Mining

Oil & Gas

Power & Energy

Retail

Transportation and Logistics

Water and Wastewater

Other End Users

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Regions Covered:

- North America
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  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific
  - Japan
  - China
  - India
  - Australia
  - New Zealand
  - South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

Market share assessments for the regional and country level segments

Market share analysis of the top industry players

Strategic recommendations for the new entrants

Market forecasts for a minimum of 9 years of all the mentioned segments, sub-segments, and the regional markets

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

- Company Profiling
  - Comprehensive profiling of additional market players (up to 3)
  - SWOT Analysis of key players (up to 3)
- Regional Segmentation
  - Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)
- Competitive Benchmarking

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