SCOTTS INTERNATIONAL

North America Wireless Sensors - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-04-28 | 120 pages | Mordor Intelligence

AVAILABLE LICENSES:

- Single User License $4750.00

- Team License (1-7 Users) $5250.00

- Site License $6500.00

- Corporate License $8750.00

Report description:

The North America Wireless Sensors Market is expected to register a CAGR of 23.4% during the forecast period.

Key Highlights
- Wireless sensors help to automate communication between critical systems and mitigate future problems for different utilities. For instance, water leak sensors can be mounted on walls to detect plumbing failures or pipes that may burst in the winter. Similarly, wireless rope sensors are being used in server rooms and data centers to detect the presence of water near computer hardware.
- These sensors also support disaster management efforts. For instance, in Texas, wireless sensors are being installed on bridges to detect water levels above a certain threshold, thus, indicating potential flash flooding in the area. Wireless vibration sensors are used in industrial plants with large machinery to predict equipment failures before they occur.
- Many companies are investing in wireless technologies in the region, which are cost-effective, safe, and convenient. For instance, SPM Instrument AB, a provider of condition monitoring technology and products, announced the release of Airius, a range of wireless vibration sensors for remote monitoring of industrial equipment. This sensor is a wireless, battery-powered vibration sensor ideal for remote condition monitoring of standard production equipment, such as pumps and fans.
- The increasing military spending across the region paves the way for technologies like drones/unmanned aerial vehicles (UAVs). In addition, the usage of wireless sensors in traditional fighter jets with high-end navigation systems is increasing significantly. The factors mentioned above are creating an exponential demand for wireless sensors in volumes as well.
- Further, the defense sector in the region is embracing wireless sensor technology, as these sensors can help organizations monitor their premises, identify suspicious activity, and track valuable assets. Moreover, they also find applications in banks. They can turn wireless push buttons into panic buttons for employees and retailers to install wireless window sensors on every building access point.

North America Wireless Sensors Market Trends

Automotive is Expected to Hold Significant Market Share

- Automotive vehicles have undergone various changes over the last few decades. Previously, cars used to work with basic electrical systems that offered power for headlights and spark plugs. As technology progressed, cars were fitted with the latest gadgets, such as radios, alarms, and wipers. Various technological advancements have also been made for vehicles' safety, such as airbag deployment. The increase in these sensor-dependent features has driven engineers to develop more accurate sensors with automotive applications in mind.
- Currently, the two significant trends for the automotive sector are electrification and automation. The emergence of electric vehicles in the industry has dramatically impacted the demand for wireless sensors in the long term. More electric cars mean an increase in demand for sensors, a surge in sensors for used battery monitoring, and various positioning and detection of moving parts of automobiles.
- Moreover, with the increasing use of electric vehicles, technology pioneers like Qualcomm have developed efficient wireless charging technology for cars. This wireless charging technology offers convenience for users to charge their vehicles at wireless charging stations, parking lots, or at home efficiently. The company has also achieved transfer efficiency of more than 90% with a single primary base pad. The company believes that the technology can be further improved for better efficiency and more straightforward implementation in the future.
- As the use cases of sensors continue to increase in automobile applications to support ADAS, infotainment, and autonomous driving systems, the need for interface specifications is apparent. It is expected to be critical for future demand.
- As ADAS applications evolve and become more complex, there has been an increased need for effective methods to present safety alerts and other relevant information to the driver. Head-up displays (HUDs) are among the few emerging solutions for consolidating ADAS data into a centralized screen that allows the driver to keep the eyes on the road while viewing alerts and warnings that appear on the windshield time.

United States Accounts for the Largest Market Share

- The growth of the wireless sensors market is driven by the application in the various end-user industries. Manufacturers invest in R&D activities to improve the accuracy and reliability of wireless sensors. Wireless sensors are used for data monitoring and other similar functions and in building automation, military and defense, and other industries, like food and beverage and material handling.
- The key drivers influencing the wireless sensors market are the increasing need for new renewable energy development, energy sources, and other rapid technological advancements in the United States. They are also a vital component in smart grids for remote monitoring of transformers and power lines where they are put into service to monitor line temperature and weather conditions.
- Moreover, critical wireless sensor vendors in the United States adopt product innovation strategies to cater to advanced offerings across the industries. For instance, in Feb 2020, Kryton International Inc., a company known for innovative and valuable concrete technologies, launched its new Maturix smart concrete sensors. The Maturix smart concrete sensor is the first truly wireless concrete monitoring sensor in the region.
- The United States also has the highest adoption of automation and smart devices in almost every industry. Owing to a high rate of industrialization, the country is a dominant market for smart homes and smart offices. The area has also witnessed the most increased adoption of wireless sensors for various industry verticals compared to the world.

- Further, with changing dynamics in the industry, automotive manufacturers are moving toward electric vehicles production to meet the needs of advanced consumers. The use of electric vehicles in the United States has risen rapidly, significantly augmenting the demand for wireless sensors designed for automotive applications.

North America Wireless Sensors Industry Overview

The North American wireless sensor is highly competitive owing to multiple vendors providing wireless sensors to the domestic and international markets. The market appears to be moderately fragmented, and the major players with a prominent share in the market are focusing on expanding their customer base across international countries. Additionally, these companies are continuously innovating their products to increase their market share and increase their profitability. Some of the recent developments in the market are:

- August 2021 - A team of researchers from UMass Lowell and Northeastern University developed a wireless sensor network to detect coronavirus in the air, wastewater in real-time. The project is called "DiSenDa," which stands for Disease Surveillance with Multi-Modal Sensor Network and Data Analytics. The probes attached to the sensors have been specifically designed to detect the presence of biomarkers for SARS-CoV-2 in the air and wastewater samples.
- January 2021 - Everactive, a technology company that builds the Internet of Things (IoT) solutions, raised USD 35 million in funding to develop its battery-free wireless sensors. The funds will be used to accelerate sales, marketing, and product development of the company's battery-free wireless sensors for industrial applications. Moreover, Everactive's end-to-end monitoring solutions are aimed at high-volume industrial assets that are currently unmonitored or under-monitored due to sheer volume.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

Table of Contents:

1 INTRODUCTION
1.1 Study Assumptions and Market Definition
1.2 Scope of the Study

2 RESEARCH METHODOLOGY

3 EXECUTIVE SUMMARY

4 MARKET INSIGHTS
4.1 Market Overview
4.2 Industry Value Chain Analysis
4.3 Industry Attractiveness - Porter's Five Forces Analysis
4.3.1 Bargaining Power of Suppliers
4.3.2 Bargaining Power of Consumers
4.3.3 Threat of New Entrants
4.3.4 Threat of Substitutes

North America Wireless Sensors - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

Market Report | 2025-04-28 | 120 pages | Mordor Intelligence

To place an Order with Scotts International:

- - Print this form
- - Complete the relevant blank fields and sign
- - Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User License	$4750.00
	Team License (1-7 Users)	$5250.00
	Site License	$6500.00
	Corporate License	$8750.00
	VAT	
	Total	

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	Phone*
First Name*	Last Name*
Job title*	
Company Name*	EU Vat / Tax ID / NIP number*
Address*	City*
Zip Code*	Country*
	Date 2025-06-25
	Signature