

North America Wireless Gas Detection Market By
Detection Technology (Electrochemical Sensors,
Catalytic Bead Sensors, Infrared Sensors,
Photoionization Detectors, Ultrasonic Sensors), By
Gas Type (Toxic Gases, Combustible Gases, Oxygen,
Refrigerants, Specialty Gases), By Application
(Industrial Safety, Environmental Monitoring,
Healthcare, Transportation, Oil & Gas), By Country, By
Competition, Forecast and Opportunities 2020-2030F

https://marketpublishers.com/r/NB2FF9D76A92EN.html

Date: May 2025

Pages: 120

Price: US\$ 4,000.00 (Single User License)

ID: NB2FF9D76A92EN

# **Abstracts**

Market Overview

The North America Wireless Gas Detection Market reached a value of USD 740.25 million in 2024 and is projected tattain USD 975.47 million by 2030, growing at a CAGR of 4.71% during the forecast period. This market involves the use of wireless sensor systems designed tdetect harmful gases in industrial and commercial settings, transmitting data in real time without wired connections. These systems play a vital role in enhancing workplace safety by delivering early warnings of gas leaks, toxic accumulation, and explosion risks. Growth in this market is being propelled by increasing industrial activities and the enforcement of stringent safety regulations, particularly in industries like oil and gas, chemicals, mining, and manufacturing, where protecting worker safety and adhering tcompliance standards are top priorities.

**Key Market Drivers** 

Increasing Industrial Safety Regulations and Compliance Requirements



Rising enforcement of industrial safety norms and regulatory standards across North America is a key growth driver for the wireless gas detection market. Authorities such as the Occupational Safety and Health Administration (OSHA) and the Environmental Protection Agency (EPA) have introduced more stringent safety requirements for sectors handling hazardous gases, including oil and gas, mining, chemical manufacturing, and waste management. These mandates demand the implementation of reliable gas detection systems tmitigate risks from leaks, toxic exposure, or explosions. Wireless gas detectors are particularly effective due their real-time monitoring capabilities and rapid response features, meeting regulatory demands for proactive safety management. In addition theing a legal requirement, adherence these standards has become a strategic necessity, as non-compliance can lead tsevere penalties, operational disruptions, and reputational harm.

Key Market Challenges

High Initial Investment and Maintenance Costs

A major obstacle the broad adoption of wireless gas detection systems in North America is the considerable upfront cost associated with these technologies. Compared ttraditional wired solutions, wireless systems require higher capital outlays for specialized sensors, advanced communication frameworks, and seamless integration with current monitoring systems. Installation further demands expert labor and comprehensive site evaluations, driving up initial expenditures. These financial demands are especially burdensome for small and medium-sized enterprises operating within limited budgets, deterring many from transitioning twireless systems despite their long-term advantages in safety and efficiency.

**Key Market Trends** 

Increasing Integration with Cloud-Based Monitoring and Analytics

A notable trend influencing the North America wireless gas detection market is the integration of detection devices with cloud-based analytics and monitoring platforms. This advancement allows organizations taggregate and analyze large volumes of real-time data from various locations, offering centralized oversight. With cloud connectivity, facilities can enhance their operational agility through features like remote access, predictive maintenance, and trend forecasting. This is particularly beneficial for organizations with assets spread across different geographies. Moreover, cloud-based



systems facilitate scalability, allowing for easy expansion of monitoring capabilities. The collaboration between tech vendors and industrial clients is alsintensifying, leading ttailored dashboards and alert systems that improve compliance and safety strategies across industrial operations.

**Key Market Players** 

Honeywell International Inc.

Dr?gerwerk AG & Co. KGaA

MSA Safety Incorporated

Emerson Electric Co.

**Industrial Scientific Corporation** 

Crowcon Detection Instruments Ltd.

Sensidyne, LP

Blackline Safety Corp.

## Report Scope:

In this report, the North America Wireless Gas Detection Market has been segmented intthe following categories, in addition the industry trends which have alsbeen detailed below:

North America Wireless Gas Detection Market, By Detection Technology:

**Electrochemical Sensors** 

Catalytic Bead Sensors

Infrared Sensors

Photoionization Detectors



Ultrasonic Sensors
North America Wireless Gas Detection Market, By Gas Type:
Toxic Gases
Combustible Gases
Oxygen
Refrigerants
Specialty Gases
North America Wireless Gas Detection Market, By Application:
Industrial Safety
Environmental Monitoring
Healthcare
Transportation
Oil & Gas
North America Wireless Gas Detection Market, By Country:
United States
Canada
Mexico

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the North



America Wireless Gas Detection Market.

Available Customizations:

North America Wireless Gas Detection Market report with the given market data, TechSci Research offers customizations according to company's specific needs. The following customization options are available for the report:

**Company Information** 

Detailed analysis and profiling of additional market players (up tfive).



## **Contents**

#### 1. SOLUTION OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
  - 1.2.1. Markets Covered
  - 1.2.2. Years Considered for Study
- 1.3. Key Market Segmentations

### 2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Formulation of the Scope
- 2.4. Assumptions and Limitations
- 2.5. Sources of Research
  - 2.5.1. Secondary Research
  - 2.5.2. Primary Research
- 2.6. Approach for the Market Study
  - 2.6.1. The Bottom-Up Approach
  - 2.6.2. The Top-Down Approach
- 2.7. Methodology Followed for Calculation of Market Size & Market Shares
- 2.8. Forecasting Methodology
  - 2.8.1. Data Triangulation & Validation

#### 3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, and Trends

## 4. VOICE OF CUSTOMER

## 5. NORTH AMERICA WIRELESS GAS DETECTION MARKET OUTLOOK

5.1. Market Size & Forecast



- 5.1.1. By Value
- 5.2. Market Share & Forecast
- 5.2.1. By Detection Technology (Electrochemical Sensors, Catalytic Bead Sensors, Infrared Sensors, Photoionization Detectors, Ultrasonic Sensors)
- 5.2.2. By Gas Type (Toxic Gases, Combustible Gases, Oxygen, Refrigerants, Specialty Gases)
- 5.2.3. By Application (Industrial Safety, Environmental Monitoring, Healthcare, Transportation, Oil & Gas)
  - 5.2.4. By Country (United States, Canada, Mexico)
  - 5.2.5. By Company (2024)
- 5.3. Market Map

#### 6. UNITED STATES WIRELESS GAS DETECTION MARKET OUTLOOK

- 6.1. Market Size & Forecast
  - 6.1.1. By Value
- 6.2. Market Share & Forecast
  - 6.2.1. By Detection Technology
  - 6.2.2. By Gas Type
  - 6.2.3. By Application

### 7. CANADA WIRELESS GAS DETECTION MARKET OUTLOOK

- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast
  - 7.2.1. By Detection Technology
  - 7.2.2. By Gas Type
  - 7.2.3. By Application

### 8. MEXICO WIRELESS GAS DETECTION MARKET OUTLOOK

- 8.1. Market Size & Forecast
  - 8.1.1. By Value
- 8.2. Market Share & Forecast
  - 8.2.1. By Detection Technology
  - 8.2.2. By Gas Type
  - 8.2.3. By Application



### 9. MARKET DYNAMICS

- 9.1. Drivers
- 9.2. Challenges

### 10. MARKET TRENDS & DEVELOPMENTS

- 10.1. Merger & Acquisition (If Any)
- 10.2. Product Launches (If Any)
- 10.3. Recent Developments

#### 11. COMPANY PROFILES

- 11.1. Honeywell International Inc.
  - 11.1.1. Business Overview
  - 11.1.2. Key Revenue and Financials
  - 11.1.3. Recent Developments
  - 11.1.4. Key Personnel/Key Contact Person
  - 11.1.5. Key Product/Services Offered
- 11.2. Dr?gerwerk AG & Co. KGaA
- 11.3. MSA Safety Incorporated
- 11.4. Emerson Electric Co.
- 11.5. Industrial Scientific Corporation
- 11.6. Crowcon Detection Instruments Ltd.
- 11.7. Sensidyne, LP
- 11.8. Blackline Safety Corp.

#### 12. STRATEGIC RECOMMENDATIONS

### 13. ABOUT US & DISCLAIMER



### I would like to order

Product name: North America Wireless Gas Detection Market By Detection Technology (Electrochemical

Sensors, Catalytic Bead Sensors, Infrared Sensors, Photoionization Detectors, Ultrasonic

Sensors), By Gas Type (Toxic Gases, Combustible Gases, Oxygen, Refrigerants,

Specialty Gases), By Application (Industrial Safety, Environmental Monitoring, Healthcare,

Transportation, Oil & Gas), By Country, By Competition, Forecast and Opportunities

2020-2030F

Product link: <a href="https://marketpublishers.com/r/NB2FF9D76A92EN.html">https://marketpublishers.com/r/NB2FF9D76A92EN.html</a>

Price: US\$ 4,000.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

# **Payment**

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <a href="https://marketpublishers.com/r/NB2FF9D76A92EN.html">https://marketpublishers.com/r/NB2FF9D76A92EN.html</a>