

# Global Gas Detection Equipment Market – Detector Types, Sensor Technologies and Applications

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## Abstracts

### REPORT SYNOPSIS

Gas Detection Equipment finds application in a range of industries as the primary option for the early detection of leakage of flammable and toxic gases and vapors, owing to which these systems have maintained relatively good demand. The Chemical/Petrochemical and Refinery sector is the largest, as also the fastest growing, market for these devices, as they play a critical role in saving human lives and other assets in case of serious mishaps associated with this industry. Detection of toxic and flammable gases is a key component of these systems, and, if achieved with early warning signs, can be crucial.

The global demand for Gas Detection Equipment by application is the largest for Chemical/Petrochemical & Refineries which is estimated at a share of about 36% in 2020; and is also primed to register the fastest 2020-2026 CAGR. The overall global Gas Detection Equipment market for 2021 is expected to reach \$4.4 billion.

### Research Findings & Coverage

This global market research report on Gas Detection Equipment analyzes the market with respect to detector types, sensor technologies and applications

Gas Detection Equipment market size is estimated/projected in this report by detector type, sensor technology and by application across all major countries

Opportunities for IoT-Enabled Gas Sensors in Environment Monitoring on the Rise

Gas Sensors Based on Carbon Nanotubes Gain Traction

Smart Gas Sensors Boost “Smartness” of Sensing Technology

Polymer Gas Sensors Exhibit Versatility

Key business trends focusing on product innovations/developments, M&As, JVs and other recent industry developments

Major companies profiled – 29

The industry guide includes the contact details for 255 companies

## **PRODUCT OUTLINE**

The market for detection types of Gas Detection Equipment studied in this report comprise the following:

Fixed Gas Detectors

Portable Gas Detectors

Multi-Gas Detectors

Single Gas Detectors

The report analyzes the market for the following sensor technologies of Gas Detection Equipment:

Catalytic Bead

Electrochemical

Infrared

Semiconductor

Applications market for Gas Detection Equipment explored in this study comprise:

Building & Construction

Chemical/Petrochemical & Refineries

Mining

Oil & Gas

Power Generation

Water Treatment

Other Applications

#### Analysis Period, Units and Growth Rates

The report reviews, analyzes and projects the global Gas Detection Equipment market for the period 2017-2026 in terms of value in US\$; and the compound annual growth rates (CAGRs) projected from 2020 through 2026 with a special focus on y-o-y for 2019-2020

#### Geographic Coverage

North America (The United States, Canada and Mexico)

Europe (France, Germany, Italy, Russia, Spain, the 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)

Rest of World



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3M Company (United States)  
ABB Ltd. (Switzerland)

Agilent Technologies, Inc. (United States)  
Airtest Technologies Inc. (Canada)  
Bacharach, Inc. (United States)  
California Analytical Instruments, Inc. (United States)  
Drägerwerk AG & Co. KGaA (Germany)  
Emerson Electric Co. (United States)  
Gastech Australia Pty Ltd (Australia)  
General Electric Company (United States)  
Honeywell International, Inc. (United States)  
Honeywell Analytics, Inc. (United States)  
Industrial Scientific (United States)  
MSA Safety Incorporated (United States)  
Riken Keiki Co., Ltd. (Japan)  
Robert Bosch GmbH (Germany)  
Schauenburg Group (Germany)  
Sensidyne, LP (United States)  
Siemens AG (Germany)  
Teledyne Technologies Incorporated (United States)  
Thermo Fisher Scientific Inc. (United States)  
Troxel Limited (United Kingdom)  
Tyco Fire & Integrated Solutions AS (Norway)  
Yokogawa Electric Corporation (Japan)

#### **4. KEY BUSINESS AND PRODUCT TRENDS**

AWC, Official Manufacturer Representative for Dräger's Fixed Gas and Flame Detection Solutions  
Yokogawa's ProSafe-RS Safety Instrumented System Receives ISASecure CSA Level 1 Certification  
RKI Introduces 04 Series Single Toxic Gas Personal Monitors  
Launch of Tango TX2 Two-Gas Monitor by Industrial Scientific  
MSA Safety to Broaden Gas Detection Business  
Halma Acquired Anton  
New Polytron 6100 EC WL Wireless Gas Detection Transmitter Launched by Dräger  
Dräger and Shell Renews Portable Gas Detection Equipment Supply Pact  
AirTest Technologies and Western Allied Corporation Form Carbon Monoxide Sensors Supply Pact  
HoverGuard, the World's Fastest, Most Sensitive Drone-Based Gas Leak Detection and Greenhouse Gas Measuring System

Launch of Drager Polytron 8900 Ultrasonic Gas Leak Detector  
Launch of Honeywell's Gas Cloud Imaging System in Europe  
AirTest to Introduce New Sensors for Heating, Cooling and Air Quality Applications  
Launch of AirTest's TR9700-WiFi CO<sub>2</sub>, Temperature, Humidity and Pressure Sensor for Schools  
200 Labs Manufacturing Facility to Deploy Sensor Electronics Gas Detectors  
Gas Detectors Monitor Encore Single Family Homes at Playa Vista  
Groot Installs Sensor Electronics Combustible Gas Detection System  
Launch of ABB Optical Sensors for Mapping Methane Emissions from Space  
RKI Launches HCN and NO<sub>2</sub> Sensors  
Crowcon Launches the World's First Fixed Detector with a MPS Sensor  
ADNOC Project to Deploy Teledyne Gas Sensing Technologies  
Installation of AirTest Sensor-Based Ventilation Control Systems in North America  
Sensidyne and TriNova to Broaden Fixed Gas Detection Network in New England  
Vector CAG, Official Manufacturer Representative for Drager Fixed Gas and Flame Detection Solutions  
Teledyne Launches New Easy Duo Detector and Controller Combo  
Relaunch of AirTest's PM2200 Personal CO<sub>2</sub> Monitor for Indoor Applications  
AirTest's Garage Ventilation Control Systems Installed by Major Internet Retailer in America  
AirTest Introduces New RM7000 Self-Calibrating Infrared Air Quality Sensor  
Launch of Safety Integrity Level 2 Version of the ProSafe Series Safety Instrumented System  
AMTRAN Installs SMC Combustible Gas Detection System  
Launch of ABB's New Portable MicroGuard Gas Leak Detection Solution  
Launch of Dra?ger Xact 7000 Multigas Detector  
AirTest to Install CO<sub>2</sub> Sensors in School Classrooms to Enhance COVID-19 Safety Protocols  
Sensidyne and TriNova Join Forces to Broaden Fixed Gas Detection Network  
IBS Completes First Installation of AirTest TR9277-EO Wireless CO<sub>2</sub> Temperature and Relative Humidity Transmitter  
Crowcon to Launch Seven New Sensors for use with Xgard Bright Gas Detector  
Development of Sensor Electronics' Innovative Gas Detectors and Gas Analyzers  
New Gas Sensor Design Ideal for Industrial Safety Use Demonstrated by GE Researchers  
Launch of Five New Sensors for use with Crowcon's Xgard Bright Gas Detector  
Launch of MGS-402 Dual-Channel Gas Detection Controller by Bacharach  
Launch of Monoxor XR Hand-Held Exhaust Gas Analyzer by Bacharach  
Sensor Electronics Selects RSD Engineering as an Exclusive Distributor in Spain



MCTA Manufacturing Facility Installs Sensor Electronics Combustible Gas Detection System

Launch of ProSafe-RS R4.05.00 by Yokogawa

Launch of Crowcon's New GM Series Controllers

Sensor Electronics Develops a New Methane Detection System

Sensor Electronics Launches New Ammonia Gas Detector

Teledyne Technologies Incorporated Acquires 3M Gas and Flame Detection Business

Honeywell Launches VESDA-E VES Aspirating Smoke Detectors

SAFER Systems to be Acquired by Industrial Scientific

Intelix Acquired by Industrial Scientific

Emerson Launches Two New Rosemount 628 Universal Gas Sensors

AirTest Develops a Full Suite of Wireless Sensors and Communication Devices

Sierra Monitor Acquired by MSA Safety

Expansion of Industrial Scientific's Connected Safety Portfolio

Addition of 22 Halogen Refrigerants for Bacharach's MGS-400 Gas Detectors

Sensor Electronics Selects Tomoe Shokai as its Exclusive Distributor in Japan

Launch of World's First Purpose-Built Quantum Cascade Laser and Tunable Diode Laser Analyzer

Series UVA 5000 Gas Phase Analyzer Launched by CAI

Bacharach Launches MGS-400 Series Refrigerant Gas Detectors

Launch of CAI GPA 2000 Gas Purity Analyzer

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Agilent Technologies, Inc. (United States)

AirTest Technologies Inc. (Canada)

Bacharach, Inc. (United States)

California Analytical Instruments, Inc. (United States)

Emerson Electric Co. (United States)

ENMET LLC (United States)

ESP Safety, Inc. (United States)

General Electric Company (United States)

Honeywell International, Inc. (United States)

Honeywell Analytics, Inc. (United States)

Industrial Scientific (United States)

MSA Safety Incorporated (United States)

RKI Instruments, Inc. (United States)

Sensidyne, LP (United States)

Sensor Electronics Corporation (United States)

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Crowcon Detection Instruments Ltd (United Kingdom)

Drägerwerk AG & Co. KGaA (Germany)

Robert Bosch GmbH (Germany)

Schauenburg Group (Germany)

Siemens AG (Germany)

Trox Limited (United Kingdom)

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