

Environment Monitoring Devices Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

Market Report | 2023-01-23 | 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 environment monitoring devices market is anticipated to register a CAGR of 6.3% over the forecast period. Environmental monitoring is used for multiple applications, such as detecting and tracking changes in temperature, humidity, particulate matter, biological and chemical air pollutants, water quality, and noise level. These systems use multiple types of sensors to check the attributes mentioned above and inform and alert users if pollution levels increase. The process also involves collecting and measuring pollutants to assess an environment's status. Further, this helps users accurately understand the natural environment and facilitate the development of policies and measures to protect it from any adverse outcomes of human activity.

Key Highlights

Emerging wireless cellular and non-cellular communication technologies have enabled users to deploy environment monitoring systems in confined places, remote locations, and difficult-to-access terrain. This has allowed governments to effectively trace and track water contamination and pollution levels at the source of occurrence.

Also, rapidly rising pollution levels due to increased industrialization and urbanization have compelled businesses and governments to deploy new environmental monitoring stations. It has also enabled companies to effectively check and establish environmental baseline standards and trends to support the development of policies and regulations.

The emergence of big data analytics has enabled companies to effectively analyze large volumes of data obtained from multiple environment monitoring networks. Technological advancements in sensor technology and a decline in sensor prices have also emerged as significant factors driving the adoption of environmental monitoring systems worldwide. Furthermore, developing IoT-specific cellular network connectivity solutions such as LTE-M and NB-IoT and non-cellular communication technologies such as sigfox and LoRaWAN is also a significant factor driving the market.

Recently, ATMO, a company building air quality and environmental monitoring products, announced the launch of Atmocube, an indoor air quality monitoring system for businesses, commercial buildings, and public spaces.

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

In October 2022, NatureMetrics, the global nature intelligence technology company, launched 'PollutionTracker,' a monthly subscription service for water pollution, combining unique DNA sampling with state-of-the-art data science to deliver mapping of bacterial pollution across whole river catchments.

Environment Monitoring Devices Market Trends

Air Pollution Monitoring is Expected to Hold Significant Market Share

Air pollution is the emission of toxic and harmful chemicals and other compounds into the atmosphere. Due to alarming levels of air pollution, the implementation of stringent regulations, and rising awareness about the harmful health effects of pollutants, monitoring air quality has become an integral part of several countries worldwide. As such, the market for air pollution monitoring devices has steadily increased in the past few years and is anticipated to continue this trend.

Project initiatives by companies to maximize awareness regarding air pollution and build monitoring devices have been crucial factors in the rise of the studied market. For example, Recently, Vortex initiated a podcast for air pollution awareness and collaborated on a major air quality monitoring project, the first of its kind in Wales, to deliver solutions for air pollution based on artificial intelligence and IoT services.

The key market players have been investing in the R&D sections to develop new and improved air pollution monitoring devices and introduce them into the market. For instance, Recently, Vaisala launched an advanced air quality sensor complementing its monitoring solution to enhance the quality of life, safety, efficiency, and sustainability in communities. By identifying pollutant gases and particles in real-time, the new AQT530 sensor advances Vaisala's offering to improve decision-making and empower stakeholders in urban communities worldwide.

Moreover, Recently during the second wave of the pandemic, Ambee, an environmental intelligence company that supplies hyperlocal data on environmental factors in real-time, has launched an all-new version of their air quality monitoring app for accessing real-time air quality data at a street-by-street level.

Further, government initiatives have also helped boost the market for air pollution monitoring devices. For example, in August 2022, the UP Pollution Control Board (UPPCB) in India installed six portable devices to monitor the air quality of areas facing demolition. These activities surge the demand for such devices, thereby increasing sales.

North America is Expected to Hold Significant Market Share

The countries and their respective states in the region have developed several regulations and requirements to protect the natural environment and the health of its citizens. Products manufactured, sold, distributed, and imported are subject to an expanding list of complex local, regional, and federal (mandatory and self-regulated) environmental requirements in the United States and Canada. These environmental and safety measures create new compliance challenges for global and local businesses, further driving the region's monitoring devices.

In North America, the Environmental Protection Agency (EPA) and the US Occupational Safety and Health Administration (OSHA) strictly implement industrial safety, which has been driving the adoption of environmental monitoring devices. Almost all businesses in the United States are subject to OSHA standards, so they are a relevant concern for employers and employees in many industries.

In September 2022, Honeywell launched a first-of-its-kind solution that combines early warning smoke and air detection with advanced indoor air quality monitoring, furthering its efforts to create safer and healthier buildings.

In August 2022, Aeroqual announced the launch of Aeroqual Ranger, a connected handheld air quality monitoring solution. The ranger represents the latest advanced evolution to the existing range of handheld monitoring devices, featuring Wi-Fi capability

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

and the Aeroqual Cloud software.

Further, Yokogawa Electric Corporation launched the OpreX Environmental Monitoring System during the pandemic. The new product is a data collection and recording system that records and manages environmental data, including temperature, humidity, and room differential pressure in medical devices and pharmaceutical manufacturing, testing, and storage areas.

Environment Monitoring Devices Market Competitor Analysis

The Environment Monitoring Devices Market is competitive because of the presence of many players running their businesses within national and international boundaries. The market concentration is low, with major players like Agilent Technologies, Inc., Danaher, Thermo Fisher Scientific, Shimadzu Corporation, and Perkinelmer, Inc.

August 2022: WITHTECH, a company that provides user-friendly product development and monitoring operation management services through high-precision analysis and contamination control technologies in the environmental industries, launched Ozone Monitoring System, WOA-683, which provides ultra-high-sensitivity real-time monitoring for ozone (O3) in cleanroom air.

January 2022: Marston Holdings, the provider of integrated, technology-enabled transport solutions, announced its acquisition of Vortex IoT Limited, a supplier of environmental sensors, networks, and data solutions that support improved air quality and decarbonization initiatives. With the acquisition of Vortex, Marston will strengthen its offering by delivering complimentary air quality and acoustic monitoring solutions that maximize awareness, identify pollution hotspots and improve public health.

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 Attractiveness - Porter's Five Forces Analysis
 - 4.2.1 Bargaining Power of Suppliers
 - 4.2.2 Bargaining Power of Consumers
 - 4.2.3 Threat of New Entrants
 - 4.2.4 Intensity of Competitive Rivalry
 - 4.2.5 Threat of Substitutes
- 4.3 Industry Value Chain Analysis
- 4.4 An Assessment of the impact of COVID-19 on the Industry

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

5 MARKET DYNAMICS

5.1 Market Drivers

5.1.1 Development of Environment-friendly Industries

5.1.2 Increased Health Concerns Due to Rising Pollution Levels

5.1.3 Stringent Government Regulations have Spurred Adoption

5.2 Market Challenges

5.2.1 High Costs Associated with Environmental Monitoring Products

6 MARKET SEGMENTATION

6.1 Product Type

6.1.1 Sensors

6.1.2 Monitors

6.1.2.1 Indoor

6.1.2.2 Outdoor

6.1.2.3 Portable

6.2 Application

6.2.1 Air Pollution Monitoring

6.2.2 Water Pollution Monitoring

6.2.3 Soil Pollution Monitoring

6.2.4 Noise Pollution Monitoring

6.3 Geography

6.3.1 North America

6.3.2 Europe

6.3.3 Asia-Pacific

6.3.4 Rest of the World

7 COMPETITIVE LANDSCAPE

7.1 Company Profiles

7.1.1 Agilent Technologies, Inc.

7.1.2 Danaher Corporation

7.1.3 Thermo Fisher Scientific Inc.

7.1.4 Shimadzu Corporation

7.1.5 Perkinelmer, Inc.

7.1.6 3M

7.1.7 Emerson Electric Co.

7.1.8 Honeywell International, Inc.

7.1.9 Siemens AG

7.1.10 Spectris PLC

7.1.11 Horiba Group

7.1.12 Raytheon Technologies Corporation

7.1.13 Sensirion Holding AG

8 FUTURE OUTLOOK OF THE MARKET

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Environment Monitoring Devices Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)

Market Report | 2023-01-23 | 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	2026-02-27
		Signature	

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com



Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com
www.scotts-international.com