

# **Water Quality Sensor Market by Type (Residual Chlorine Sensor, Total Organic Carbon (TOC) Sensor, Turbidity Sensor, Conductivity Sensor, pH Sensor, Oxidation-Reduction Potential (ORP) Sensor, and Others), Application (Utility, Household Sectors, Agricultural Sectors, Aquaculture, and Others), and Region 2023-2028**

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## **Abstracts**

### Market Overview:

The global water quality sensor market size reached US\$ 5.12 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 7.47 Billion by 2028, exhibiting a growth rate (CAGR) of 6.2% during 2023-2028. The rising environmental consciousness among the masses, increasing concerns about water pollution, contamination, and depletion, and the implementation of stringent regulations and standards regarding water sources represent some of the key factors driving the market.

A water quality sensor is a sophisticated device designed to assess and monitor various parameters and characteristics of water to determine its overall quality and purity. It utilizes advanced technologies to measure and analyze several essential factors, including temperature, pH level, dissolved oxygen, turbidity, conductivity, and various chemical contaminants present in the water. Acquiring accurate and current data, enables scientists, researchers, and environmentalists to evaluate the security of sources of drinking water as well as the condition of water bodies, including rivers, lakes, and oceans. Additionally, it typically consists of a combination of physical and chemical sensors, probes, electrodes, and detectors, each designed to measure

specific properties of water. Temperature sensors monitor the thermal conditions of the water, pH sensors determine the acidity or alkalinity, dissolved oxygen sensors measure the amount of oxygen dissolved in the water, and turbidity sensors assess the clarity by measuring suspended particles.

#### Water Quality Sensor Market Trends:

The rising environmental consciousness among the masses majorly drives the global market. This can be supported by the growing concerns about water pollution, contamination, and depletion amplifying the need for effective water quality monitoring. Along with this, governments, and regulatory bodies are implementing stringent regulations and standards to protect water resources and ensure public health and safety. This is driving the demand for water quality sensors across industries, including municipal water treatment plants, industrial facilities, and agriculture. In addition, water quality sensors find extensive applications across various industries. For instance, water treatment plants rely on these sensors to ensure the quality of drinking water supplied to communities. Industrial facilities, including power plants, oil and gas refineries, and chemical plants, use water quality sensors for process optimization, effluent monitoring, and compliance with environmental regulations. The expanding industrial sector globally sustains the demand for water quality sensors. Apart from this, the increasing investments in research and development activities focused on water quality management and monitoring technologies are contributing to the market. Furthermore, the development of innovative sensor types, such as optical, electrochemical, and spectroscopic sensors is creating a positive market outlook. Some of the other factors driving the market include rapid urbanization and rising water-related health concerns.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global water quality sensor market, along with forecasts at the global, regional, and country levels from 2023-2028. Our report has categorized the market based on type and application.

#### Type Insights:

- Residual Chlorine Sensor
- Total Organic Carbon (TOC) Sensor
- Turbidity Sensor
- Conductivity Sensor
- pH Sensor
- Oxidation-Reduction Potential (ORP) Sensor

## Others

The report has provided a detailed breakup and analysis of the water quality sensor market based on the type. This includes residual chlorine sensor, total organic carbon (TOC) sensor, turbidity sensor, conductivity sensor, pH sensor, oxidation-reduction potential (ORP) sensor, and others. According to the report, pH sensor represented the largest segment.

## Application Insights:

Utility

Household Sectors

Agricultural Sectors

Aquaculture

Others

A detailed breakup and analysis of the water quality sensor market based on the application has also been provided in the report. This includes utility, household sectors, agricultural sectors, aquaculture, and others. According to the report, utility accounted for the largest market share.

## Regional Insights:

North America

United States

Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain  
Russia  
Others  
Latin America  
Brazil  
Mexico  
Others  
Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America was the largest market for water quality sensor. Some of the factors driving the North America water quality sensor market included rising environmental consciousness, continual technological advancements, favorable government regulations, etc.

#### Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global water quality sensor market. The detailed profiles of all major companies have been provided. Some of the companies covered include AQUALITAS Technologies Ltd., Atlas Scientific, Badger Meter Inc., Danaher Corporation, Endress+Hauser AG, Hanna Instruments Inc., Horiba Ltd, Real Tech Inc., Thermo Fisher Scientific Inc., Xylem Inc., Yokogawa Electric Corporation, etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

#### Key Questions Answered in This Report:

How has the global water quality sensor market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global water quality sensor market?

What is the impact of each driver, restraint, and opportunity on the global water quality sensor market?

What are the key regional markets?

Which countries represent the most attractive water quality sensor market?

What is the breakup of the market based on the type?

- Which is the most attractive type in the water quality sensor market?
- What is the breakup of the market based on the application?
- Which is the most attractive application in the water quality sensor market?
- What is the competitive structure of the global water quality sensor market?
- Who are the key players/companies in the global water quality sensor market?

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