Water Quality Sensor Market Report and Forecast 2025-2034

Market Report | 2025-08-13 | 154 pages | EMR Inc.

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Report description:

The global water quality sensor market was valued at USD 6.27 Billion in 2024 . The industry is expected to grow at a CAGR of 5.60% during the forecast period of 2025-2034 to attain a valuation of USD 10.81 Billion by 2034 .

Asia Pacific to be a Significant Regional Market for Water Quality Sensor

Asia Pacific is expected to dominate the water quality sensor market during the forecast period. The economies such as China, India, Japan, and South Korea are the key contributors to the market's growth. The growth can be attributed to the high adoption of water quality sensors in water and wastewater treatment applications. Increasing industrialisation leads to rising water pollution; thus, the demand for water quality sensors has increased. Also, growing investments and initiatives by the government such as smart cities, river protection, and smart water management systems in the region to reduce water pollution and rising strict government rules for wastewater disposal are driving the growth of the market in the region. In addition, the presence of many pharmaceutical and food and beverage companies in the region has increased the need for water treatment plants, propelling the market growth.

Market Segmentations

Water quality sensors are electrical sensing devices that measure the level of contamination in water. These sensors primarily monitor chemical concentrations and solids in water. These sensors can tolerate a wide variety of pressure and temperature while providing consistent results.

The types of water quality sensors can be divided into:

- Handheld Meters
- Multiparameter Sondes
- Conductivity Meters

- Temperature and Depth Loggers (CTD)
- Automatic Water Samplers
- Single Parameter Sensors
- Online/Process Monitors
- Colorimeters
- Others

Based on component, the water quality sensor market can be divided into:

- pH Sensors
- DO Sensors
- Temperature Sensors
- Turbidity Sensors
- Others

The market can be broadly categorised based on end-use into:

- Utility
- Household Sectors
- Agricultural Sectors
- Aqua Culture
- Others

Market Breakup by Region

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

Technological Development of Water Quality Sensors Augmenting the Market Growth

One of the significant market dynamics for water quality sensors impacting the industry growth is the technological development of water quality sensors. A surge in the adoption of water quality sensors to monitor water quality in rivers, sea and lakes is one of the major factors driving the growth of the global market. Increasing significance of water quality sensors in applications such as potable water monitoring, pollution level detection and chemical leakage detection large water sources such as rivers, rising demand for rugged and industrial grade water quality sensors, growing market for various sensing devices, growing awareness among users and stringent government regulations to control water pollution are expected to accelerate the growth of the market during the forecast period. Further, digitalisation, automation, and electrification are laying the foundation for efficient, reliable, and sustainable processes in the water industry. Rapid urbanisation and industrial development have resulted in water contamination and water quality deterioration at an alarming rate; therefore, its quick and inexpensive detection has become vital. This is augmenting the growth of the global water quality sensors market.

Key Players in the Global Market for Water Quality Sensor

The report gives a detailed analysis of the following key players in the global water quality sensor market, covering their

competitive landscape, capacity, and latest developments like mergers, acquisitions, and investments, expansions of capacity, and plant turnarounds:

- YSI Inc. / Xylem Inc.
- ABB Ltd
- Horiba, Ltd.
- Oakton Instruments
- Pentair Aquatic Eco-Systems, Inc.
- Thermo Fisher Scientific Inc.
- Shimadzu Corporation
- Danaher Corporation
- Others

The comprehensive EMR report provides an in-depth assessment of the market based on the Porter's five forces model along with giving a SWOT analysis.

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