

Global Intelligent Water Quality Monitoring System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Intelligent Water Quality Monitoring System market size is expected to reach \$ 3182 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

Intelligent Water Quality Monitoring System refers to an integrated monitoring system that combines water quality sensors, online analyzers, sampling and pretreatment units, data acquisition terminals, communication modules, cloud-based or local monitoring software, and alarm analytics to continuously or semi-continuously monitor drinking water, wastewater, surface water, groundwater, industrial effluent and aquaculture water. The system typically measures parameters such as pH, dissolved oxygen, turbidity, conductivity, oxidation-reduction potential, temperature, ammonia nitrogen, organic matter, nutrients and other key indicators, while using IoT, telemetry, edge computing and data analytics to enable remote monitoring, trend assessment, abnormal-event alerts and operational management. It provides data support for water safety, pollution tracing, process control and regulatory decision-making. The unit price of Intelligent Water Quality Monitoring System typically ranges from several thousand to tens of thousands of US dollars, with an industry gross profit margin between 30% and 50%.

The upstream supply chain of Intelligent Water Quality Monitoring Systems mainly includes water quality sensors, online analyzers, optical and electrochemical probes, flow-path and sampling pretreatment components, reagents and consumables, data loggers, wireless communication modules, edge computing units, power systems, protective cabinets and software algorithms. Downstream applications include municipal water supply, wastewater treatment, industrial effluent discharge, river and lake ecological monitoring, drinking water source protection, agricultural irrigation,

aquaculture and environmental regulation. As water utilities and environmental management become more digitalized, system value is expanding from hardware sales to data management, remote operation, predictive alerts and long-term services.

The Intelligent Water Quality Monitoring System market is shifting from manual sampling and isolated online measurement toward continuous, networked and platform-based monitoring. Driven by drinking water safety, wastewater discharge regulation, industrial process control, river and lake protection, and smart water infrastructure, customers are placing greater emphasis not only on single-parameter accuracy but also on multi-parameter sensing, remote communication, automatic alarms, data visualization, equipment maintenance and integration with SCADA or utility management platforms. Future competition will focus on sensor stability, anti-fouling performance, long-term online operation, data algorithm reliability, low-maintenance design and integrated hardware-software service capability.

This report studies the global Intelligent Water Quality Monitoring System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Intelligent Water Quality Monitoring System and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Intelligent Water Quality Monitoring System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Intelligent Water Quality Monitoring System total production and demand, 2021-2032, (K Units)

Global Intelligent Water Quality Monitoring System total production value, 2021-2032, (USD Million)

Global Intelligent Water Quality Monitoring System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Intelligent Water Quality Monitoring System consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Intelligent Water Quality Monitoring System domestic production, consumption, key domestic manufacturers and share

Global Intelligent Water Quality Monitoring System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Intelligent Water Quality Monitoring System production by Type, production,

value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Intelligent Water Quality Monitoring System production by Application,
production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Intelligent Water Quality Monitoring System market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Veolia, ABB, Emerson, Xylem, HACH (Veralto), Endress+Hauser, Yokogawa, Shimadzu, Horiba, Badger Meter, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Intelligent Water Quality Monitoring System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Intelligent Water Quality Monitoring System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Intelligent Water Quality Monitoring System Market, Segmentation by Type:

Fixed Type

Mobile Type

Global Intelligent Water Quality Monitoring System Market, Segmentation by Installation Environment:

Indoor

Outdoor

Global Intelligent Water Quality Monitoring System Market, Segmentation by System Architecture:

On-Premises

Cloud-Based

Global Intelligent Water Quality Monitoring System Market, Segmentation by Application:

Municipal Water Supply

Industrial Wastewater

Environmental Water Monitoring

Others

Companies Profiled:

Veolia

ABB

Emerson

Xylem

HACH (Veralto)

Endress+Hauser

Yokogawa

Shimadzu

Horiba

Badger Meter

B&K

Focused Photonics

Sailhero

SDL

Lihe Technology

INESA Scientific Instrument

Kelungde

Key Questions Answered:

1. How big is the global Intelligent Water Quality Monitoring System market?

2. What is the demand of the global Intelligent Water Quality Monitoring System market?
3. What is the year over year growth of the global Intelligent Water Quality Monitoring System market?
4. What is the production and production value of the global Intelligent Water Quality Monitoring System market?
5. Who are the key producers in the global Intelligent Water Quality Monitoring System market?
6. What are the growth factors driving the market demand?

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