

# Global Process Monitoring System Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Process Monitoring System market size was valued at US\$ 8421 million in 2025 and is forecast to a readjusted size of US\$ 14929 million by 2032 with a CAGR of 8.5% during review period.

Process monitoring systems are comprehensive monitoring and control solutions applied to industrial production and continuous processes. Through real-time acquisition, transmission, analysis, and feedback of key process parameters such as temperature, pressure, flow rate, liquid level, and composition, they achieve visualized management and stable control of the production process. These systems typically consist of field sensors and instruments, data acquisition and communication networks, control units (such as PLCs and DCSs), monitoring software platforms, and human-machine interfaces. They ensure safe operation of equipment and consistent product quality under complex operating conditions. Process monitoring systems are widely used in continuous or semi-continuous production industries such as petrochemicals, power energy, metallurgy, pharmaceuticals, food and beverage, water treatment, and new materials. Their core objectives are to improve production efficiency, reduce energy consumption, minimize human error risks, and meet safety and environmental compliance requirements. With the development of industrial automation and digitalization, modern process monitoring systems are gradually integrating industrial internet, edge computing, and data analytics technologies to achieve intelligent perception and early warning of equipment status, process fluctuations, and abnormal events. They provide enterprises with an integrated platform from basic monitoring to optimized decision support, becoming a foundational system for smart factories and the digital transformation of process industries.

The process monitoring system market is at a critical stage of upgrading from 'automation' to 'intelligence.' The transformation of existing equipment in traditional heavy industries such as petrochemicals, power, and metallurgy has become a core source of demand. Enterprises are no longer solely focused on basic monitoring and control, but are placing greater emphasis on the system's contribution to safe production, energy efficiency management, and reduced overall operating costs. This gives manufacturers with high reliability and industry experience a competitive advantage.

From a technological perspective, edge computing, the Industrial Internet, and AI algorithms are reshaping the value boundaries of process monitoring systems. Through multi-source data fusion, anomaly warnings, quality predictions, and equipment health management are achieved. Systems are shifting from 'passive display' to 'proactive decision support.' The proportion of software and platform capabilities in the overall value continues to increase, driving the market's evolution from one-off project-based to platform-based, service-oriented, and subscription-based models.

In terms of the competitive landscape, international automation giants still hold an advantage in high-end complex equipment and overall solutions. However, domestic manufacturers are rapidly rising, driven by cost control, customized responses, and domestic substitution policies. Competition in the low-to-mid-end market is intensifying, with significant price pressure forcing companies to maintain profit margins through differentiated industry solutions and continuous service capabilities.

From a demand structure perspective, increasingly stringent safety and environmental regulations, the expansion of the new energy and new materials industries, and the digital upgrade of aging equipment constitute medium- to long-term growth drivers. However, fluctuations in the macroeconomic investment cycle will bring periodic ups and downs. Therefore, the market is more inclined towards growth-oriented sectors with 'steady progress,' which have stronger counter-cyclical capabilities than single-equipment products.

In summary, the future winners in the process monitoring system market will be companies that simultaneously master core hardware reliability, industrial software platform capabilities, and industry know-how. They will build long-term customer loyalty through an integrated 'system + data + service' model, transforming themselves from equipment suppliers to providers of industrial digital solutions.

This report is a detailed and comprehensive analysis for global Process Monitoring System market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Process Monitoring System market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Process Monitoring System market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Process Monitoring System market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Process Monitoring System market shares of main players, in revenue (\$ Million), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Process Monitoring System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Process Monitoring System market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Sciometric, Kistler, Marposs, Sartorius, Burster, SixSigma, IntelliDynamics, NLIGHT, Omega Engineering, TOX, etc.

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

## **Market segmentation**

Process Monitoring System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Thermal Monitoring System

Composition Analysis Monitoring System

Mechanical Condition Monitoring System

Vision and Image Monitoring System

Safety and Interlocking System

### Market segment by Monitoring Levels

Sensors and Instruments Layer

Data Acquisition and Monitoring Layer

Process Control Layer

Others

### Market segment by Technology

Centralized Monitoring

Distributed Monitoring

AI-enhanced Monitoring

#### Market segment by Application

Manufacturing

Chemicals

Electricity

Others

#### Market segment by players, this report covers

Sciometric

Kistler

Marposs

Sartorius

Burster

SixSigma

IntelliDynamics

NLIGHT

Omega Engineering

TOX

SolidWorks

AppliTek

Xylem

Schwer und Kopka

Blumenbecker GmbH

NTOUCH MONITORING LIMITED

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 13 chapters:**

Chapter 1, to describe Process Monitoring System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Process Monitoring System, with revenue, gross margin, and global market share of Process Monitoring System from 2021 to 2026.

Chapter 3, the Process Monitoring System competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Process Monitoring System market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Process Monitoring System.

Chapter 13, to describe Process Monitoring System research findings and conclusion.

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