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Global Water Treatment Pipeline Corrosion Monitoring 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 Water Treatment Pipeline Corrosion Monitoring market size was valued at US$ 229 million in 2025 and is forecast to a readjusted size of US$ 348 million by 2032 with a CAGR of 4.7% during review period.

Water treatment pipeline corrosion monitoring is a technical approach that systematically monitors, assesses, and issues early warnings regarding the corrosion status of internal and external walls of pipelines transporting various types of water within water treatment systems. Its purpose is to promptly detect corrosion risks and assess corrosion rates, providing critical data for safe operation, maintenance decisions, and lifespan prediction of pipelines. This ensures the stable operation of water treatment systems and prevents leaks and secondary water contamination.

The upstream sector of the industry chain primarily involves the research and development and manufacturing of sensors, probes, data acquisition hardware, and analysis software. The midstream sector encompasses the integration, installation, commissioning, and ongoing data services of monitoring systems. The downstream sector is widely used for corrosion monitoring and safety management of pipeline networks in water treatment facilities, such as municipal water supply, sewage treatment, and industrial circulating water. The industry's gross profit margin is approximately 20-35%.

The main market drivers include the following:

Increased Compliance with Industrial Water Safety and Environmental Standards

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Water treatment pipelines are critical infrastructure for industrial production and municipal water supply. Their operational safety directly impacts water quality stability and environmental protection. Corrosion is a major cause of pipeline failure, leading not only to leaks and reduced water pressure but also potential water pollution, threatening production safety and public health. For example, corrosion and perforation in water treatment pipelines in industries such as chemical and power generation can cause leaks of toxic substances, polluting soil and water sources. Corrosion in municipal water supply pipelines can introduce heavy metal ions or microorganisms, affecting drinking water safety. Simultaneously, increasingly stringent global environmental regulations impose higher standards on industrial wastewater discharge. Companies must ensure that their water treatment pipelines are leak-free and pollution-free throughout their entire lifecycle to avoid hefty fines or production shutdowns. Therefore, deploying corrosion monitoring services has become a necessary means for companies to meet compliance requirements and ensure water safety, driving continuous growth in market demand for real-time, accurate monitoring technologies.

Increasing Pressure from Aging Pipelines and Maintenance Costs

Many industrial and municipal water treatment pipelines were built decades ago and have long been affected by water quality, pressure, and environmental factors, resulting in widespread aging and corrosion problems. Traditional pipeline maintenance relies on regular manual inspections and shutdown checks, which is not only inefficient and costly but also fails to detect early corrosion risks, easily leading to sudden failures and large-scale repairs. Statistics show that unplanned downtime and water waste caused by pipeline leaks result in significant economic losses for enterprises annually, while complete pipeline replacement requires substantial investment and a lengthy construction period. Corrosion monitoring services, through the online installation of sensors (such as electrochemical probes and ultrasonic thickness gauges), can monitor the corrosion rate of the pipeline's inner wall, remaining wall thickness, and environmental parameters (such as pH value and chloride ion concentration) in real time. Combined with data analysis models, it predicts corrosion trends and provides early warnings of potential risks. This 'predictive maintenance' model helps enterprises accurately locate corrosion sites, develop targeted maintenance plans, significantly extend pipeline lifespan, and reduce total lifecycle maintenance costs, becoming an economical and efficient solution for addressing aging issues.

The trend of intelligent and digital transformation is driving this transformation

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With the advancement of Industry 4.0 and smart city construction, the water treatment industry is accelerating its transformation towards intelligent and digital technologies. Traditional pipeline monitoring methods rely on manual recording and offline analysis, resulting in data lag and difficulty in sharing, failing to meet the needs of real-time decision-making. The new generation of corrosion monitoring services integrates IoT, cloud computing, and AI technologies to achieve automated data collection, transmission, and intelligent analysis. For example, wireless sensor networks can cover long-distance pipelines, uploading monitoring data to a cloud platform in real time; AI algorithms can automatically identify corrosion types, assess severity, and generate maintenance recommendations; digital twin technology can build virtual pipeline models, simulate corrosion development processes, and optimize operation and maintenance strategies. Furthermore, monitoring data can be integrated with enterprise SCADA systems and asset management platforms, providing a basis for production scheduling, energy consumption optimization, and emergency response. This intelligent and integrated monitoring service not only improves the efficiency and accuracy of pipeline management but also drives the water treatment industry's transformation from 'passive maintenance' to 'proactive prevention,' becoming a crucial support for enterprise digital transformation.

This report is a detailed and comprehensive analysis for global Water Treatment Pipeline Corrosion Monitoring 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 Water Treatment Pipeline Corrosion Monitoring market size and forecasts, in consumption value ($ Million), 2021-2032

Global Water Treatment Pipeline Corrosion Monitoring market size and forecasts by region and country, in consumption value ($ Million), 2021-2032

Global Water Treatment Pipeline Corrosion Monitoring market size and forecasts, by Type and by Application, in consumption value ($ Million), 2021-2032

Global Water Treatment Pipeline Corrosion Monitoring market shares of main players,

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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 Water Treatment Pipeline Corrosion Monitoring

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 Water Treatment Pipeline Corrosion Monitoring 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 Honeywell, Emerson, Baker Hughes, Rosen Group, SGS, DNV Group, Applus+, T?V Rheinland, Sensor Networks, Intertek, etc.

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

Market segmentation

Water Treatment Pipeline Corrosion Monitoring 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

Intrusive Corrosion Monitoring

Non-intrusive Corrosion Monitoring

Market segment by Monitoring Method

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Online Real-Time Monitoring

Offline Periodic Monitoring

Market segment by Technology

Internal Corrosion Monitoring

External Corrosion Monitoring

Stress Corrosion Monitoring

Market segment by Application

Municipal Water Supply

Wastewater Treatment

Industrial Circulating Water

Other

Market segment by players, this report covers

Honeywell

Emerson

Baker Hughes

Rosen Group

SGS

DNV Group

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Applus+

T?V Rheinland

Sensor Networks

Intertek

Cosasco

Sensorlink

Sentry

ZKwell

ClampOn

Wuhan Corrtest Instruments

EuropCorr

Orisonic Technology

Korosi Specindo

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)

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

Chapter 1, to describe Water Treatment Pipeline Corrosion Monitoring product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Water Treatment Pipeline Corrosion Monitoring, with revenue, gross margin, and global market share of Water Treatment Pipeline Corrosion Monitoring from 2021 to 2026.

Chapter 3, the Water Treatment Pipeline Corrosion Monitoring 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 Water Treatment Pipeline Corrosion Monitoring 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 Water Treatment Pipeline Corrosion Monitoring.

Chapter 13, to describe Water Treatment Pipeline Corrosion Monitoring research findings and conclusion.

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