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Pipeline Monitoring Systems Market Report by Pipe Type (Metallic Pipe, Non-metallic Pipe), Technology (Ultrasonic Testing, Smart Ball, Magnetic Flux Leakage Technology, Pipeline Inspection Gauges (PIGs), and Others), Application (Leak Detection, Pipeline Break Detection, Operating Condition, and Others), End Use Industry (Oil and Gas, Water and Wastewater, and Others), and Region 2024-2032

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Abstracts

The global pipeline monitoring systems market size reached US$ 16 Billion in 2023. Looking forward, IMARC Group expects the market to reach US$ 29 Billion by 2032, exhibiting a growth rate (CAGR) of 6.53% during 2024-2032.

Pipeline monitoring systems refer to solutions that are extensively deployed for evaluating bacteriological control programs and corrosions in pipelines. They usually acquire samples or data without generating hazardous wastes to meet regulating supervising requirements. Pipeline monitoring systems aid in leak detection, analyzing operating conditions, monitoring pipeline networks, and break discovery thereby, eliminating the risk of potential disasters, including explosion and fire. This, in turn, assists in optimizing productivity, improving the production process, increasing asset lifespan, and enhancing safety and compliance. At present, pipeline monitoring systems are commercially available in varying types, such as metallic and non-metallic.

Pipeline Monitoring Systems Market Trends:
The increasing instances of pipe leakages, breaks, corrosion, or cracks, in oil, wastewater, and refined petroleum industries is primarily driving the global pipeline

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monitoring systems market growth. This is further supported by favorable initiatives being undertaken by the government of various countries to promote disaster management, workplace safety, and meet the working standards, which is further facilitating the widespread adoption of pipeline monitoring systems in the crude and refined petroleum industries. In line with this, the large-scale integration of these systems with pipeline inspection gauges (PIGs), magnetic flux leakage technology, smart ball, and various communication solutions, including human-machine interface (HMI) and supervisory control and data acquisition (SCADA) for performing remote management and conducting efficient operations is acting as another growth-inducing factor. Moreover, the extensive utilization of metallic pipelines in the oil and gas industry as it provides higher strength flexibility, resistance from corrosion, long-term sustainability, and ability to withstand higher pressures is contributing the market growth. Other factors, such as significant investments in research and development (R&D) activities for engineering highly efficient facilities to improve production technology and reduce operating costs, along with the escalating oil and gas exploration activities, are creating a positive outlook for the market.

Key Market Segmentation:
IMARC Group provides an analysis of the key trends in each sub-segment of the global pipeline monitoring systems market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on pipe type, technology, application and end use industry.

Breakup by Pipe Type:

Metallic Pipe
Non-metallic Pipe

Breakup by Technology:

Ultrasonic Testing
Smart Ball
Magnetic Flux Leakage Technology
Pipeline Inspection Gauges (PIGs)
Others

Breakup by Application:

Leak Detection

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Pipeline Break Detection
Operating Condition
Others

Breakup by End Use Industry:

Oil and Gas
Water and Wastewater
Others

Breakup by Region:

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

Competitive Landscape:
The competitive landscape of the industry has also been examined along with the

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profiles of the key players being ABB Ltd., Honeywell International Inc., Huawei Technologies Co. Ltd., Orbcomm Inc., Pentair plc, PERMA-PIPE International Holdings Inc., PSI Software AG, Siemens AG, TC Energy Corporation, Thales Group and Xylem Inc.

Key Questions Answered in This Report

1. What was the size of the global pipeline monitoring systems market in 2023?
2. What is the expected growth rate of the global pipeline monitoring systems market during 2024-2032?
3. What are the key factors driving the global pipeline monitoring systems market?
4. What has been the impact of COVID-19 on the global pipeline monitoring systems market?
5. What is the breakup of the global pipeline monitoring systems market based on the pipe type?
6. What is the breakup of the global pipeline monitoring systems market based on the technology?
7. What is the breakup of the global pipeline monitoring systems market based on application?
8. What is the breakup of the global pipeline monitoring systems market based on the end use industry?
9. What are the key regions in the global pipeline monitoring systems market?
10. Who are the key players/companies in the global pipeline monitoring systems market?

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