

Global Pipeline Integrity Monitoring System Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G2AA20A47E30EN.html>

Date: April 2026

Pages: 139

Price: US\$ 4,480.00 (Single User License)

ID: G2AA20A47E30EN

Abstracts

The global Pipeline Integrity Monitoring System market size is expected to reach \$ 3027 million by 2032, rising at a market growth of 3.5% CAGR during the forecast period (2026-2032).

Pipeline integrity monitoring systems are industrial safety monitoring systems designed for various pipelines in industries such as oil and gas, water, chemicals, and municipal engineering. They integrate sensor data acquisition, communication transmission, data analysis, risk warning, and full lifecycle management.

The global production of pipeline integrity monitoring systems is projected to reach 2,200 units by 2025, with an average price of US\$1.05 million per unit.

Upstream includes suppliers of various sensors such as pressure sensors, flow meters and acoustic or fiber optic sensing devices, manufacturers of data acquisition and transmission modules, communication equipment providers, embedded control system and software developers and suppliers of power and protection equipment. Sensors and monitoring terminals account for a significant portion of cost, followed by communication systems, software platform development and system integration. For long-distance pipeline monitoring, communication and data processing systems represent an increasing share of total value. Downstream applications include oil and gas transmission pipelines, chemical pipelines, municipal water supply and gas distribution networks and broader energy infrastructure systems. In the oil and gas sector, these systems are used for leak detection, corrosion monitoring and operational assessment of long-distance pipelines. In municipal systems, they ensure the safe delivery of water and gas. In chemical industries, they monitor pipelines carrying hazardous materials. Demand continues to grow with expanding energy infrastructure and stricter safety

regulations. Industry trends focus on distributed fiber optic sensing technologies, intelligent data analytics and predictive maintenance, integration with IoT platforms and unmanned inspection technologies. By incorporating big data and artificial intelligence, these systems can enhance fault prediction and risk warning capabilities. Advances in satellite communication and wireless transmission further improve remote monitoring for long-distance pipelines. Gross margins typically range from 25% to 45%. Standard monitoring systems generally achieve margins of approximately 25%–35%, while high-end customized solutions or integrated software platforms may reach 35%–45%. Key industry barriers include multi-source data integration, system integration capability and high-reliability monitoring technologies. Market demand is closely linked to oil and gas infrastructure investment, municipal pipeline development and safety regulation policies.

This report studies the global Pipeline Integrity Monitoring System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Pipeline Integrity 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 Pipeline Integrity Monitoring System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Pipeline Integrity Monitoring System total production and demand, 2021-2032, (Units)

Global Pipeline Integrity Monitoring System total production value, 2021-2032, (USD Million)

Global Pipeline Integrity Monitoring System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Pipeline Integrity Monitoring System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Pipeline Integrity Monitoring System domestic production, consumption, key domestic manufacturers and share

Global Pipeline Integrity Monitoring System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Pipeline Integrity Monitoring System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Pipeline Integrity Monitoring System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Pipeline Integrity 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 SLB, Baker Hughes, ROSEN, Emerson, DNV, KROHNE, Yokogawa, Atmos International, AP Sensing, Luna Innovations, 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 Pipeline Integrity Monitoring System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Pipeline Integrity Monitoring System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Pipeline Integrity Monitoring System Market, Segmentation by Type:

Fiber Optic Sensing Type

Pressure/Flow Fluctuation Type

Ultrasonic Guided Wave Type

Electrical Sensing and Monitoring Type

Other

Global Pipeline Integrity Monitoring System Market, Segmentation by Monitoring Targets:

Leak Detection System

Corrosion Monitoring System

Structural Health Monitoring System

Others

Global Pipeline Integrity Monitoring System Market, Segmentation by Deployment Mode:

Continuous Online Monitoring System

Periodic Inspection System

Remote Monitoring System

Global Pipeline Integrity Monitoring System Market, Segmentation by Application:

Oil And Gas Pipeline Monitoring

Urban Gas Network Safety Management

Chemical Pipeline System Monitoring

Long-Distance Energy Transmission Infrastructure

Other

Companies Profiled:

SLB

Baker Hughes

ROSEN

Emerson

DNV

KROHNE

Yokogawa

Atmos International

AP Sensing

Luna Innovations

Omnisens

Hifi Engineering

Bandweaver

CSSC

Wuhan Ligong Guangke

Shenzhen Leengstar Technology

Key Questions Answered:

1. How big is the global Pipeline Integrity Monitoring System market?
2. What is the demand of the global Pipeline Integrity Monitoring System market?
3. What is the year over year growth of the global Pipeline Integrity Monitoring System market?
4. What is the production and production value of the global Pipeline Integrity Monitoring System market?
5. Who are the key producers in the global Pipeline Integrity Monitoring System market?
6. What are the growth factors driving the market demand?

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