

# Digital Flow Monitoring Boosts Smart Flow Meter Market Toward \$5.4 Billion

*Smart flow meters enable real-time data accuracy across industries, but high costs from tech upgrades may restrain their market growth.*

WILMINGTON, DE, UNITED STATES, June 26, 2025 /EINPresswire.com/ -- According to a new report published by Allied Market Research, titled, "Smart Flow Meter Market," The smart flow meter market was valued at \$2.7 billion in 2021, and is estimated to reach \$5.4 billion by 2031, growing at a CAGR of 7.4% from 2022 to 2031.



Allied Market

The aircraft pumps market plays a crucial role in ensuring the efficient operation of various aircraft systems, including hydraulic, fuel, lubrication, and coolant systems. These pumps are essential for controlling critical flight functions such as landing gear operation, flight control surfaces, and braking systems. With the ongoing advancements in aviation technology, aircraft

are becoming increasingly complex and reliant on sophisticated hydraulic and fuel systems, thereby driving the demand for high-performance, durable, and lightweight pumps. Both commercial and military aviation sectors depend on reliable pump systems to ensure safety, performance, and operational efficiency.

The growing demand for new aircraft, fueled by the increase in global air travel, defense budgets, and expansion of airline fleets, is propelling the aircraft pumps market forward. Additionally, the rising focus on

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Smart flow meters are revolutionizing process industries by enabling real-time monitoring, improved accuracy, and seamless integration with IIoT systems.”

*Allied Market Research*

lightweight components and fuel-efficient systems is leading to the development of advanced pumps with improved design and material innovation. Moreover, the shift toward more electric aircraft (MEA) that aim to replace traditional hydraulic and pneumatic systems with electrically powered alternatives is expected to create significant growth opportunities in the market.

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## Market Dynamics

The smart flow meter market is experiencing robust growth driven by the rising demand for accurate and real-time flow measurement across diverse industries such as oil & gas, water & wastewater, chemicals, and food & beverages. The need for precise monitoring to enhance process efficiency, reduce losses, and meet regulatory compliance is fueling the adoption of smart flow meters. These devices provide advanced diagnostics, digital communication capabilities, and integration with SCADA and other control systems, enabling improved process automation and decision-making.

Technological advancements in sensor technology, wireless communication, and data analytics are further propelling the market. The integration of Industrial Internet of Things (IIoT) and Industry 4.0 concepts has created new growth avenues for smart flow meter manufacturers. Enhanced functionalities such as self-diagnosis, remote calibration, and predictive maintenance capabilities offer significant value, reducing operational costs and downtime in industrial environments.

However, the high cost of smart flow meters compared to traditional flow meters is a key restraint, especially in price-sensitive markets. The initial investment and complexities associated with installation and integration into existing systems can deter small and medium-sized enterprises from adopting these technologies. Moreover, the need for skilled personnel to manage and interpret data may limit widespread implementation in some regions.

Despite these challenges, the increasing emphasis on energy efficiency and sustainability across industries offers substantial opportunities for market expansion. Governments and environmental agencies are enforcing strict regulations on emissions and resource usage, prompting industries to adopt smarter flow measurement systems. This regulatory push is particularly strong in the water management, chemical processing, and energy sectors.

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Additionally, the emergence of smart cities and the digitization of utility infrastructure are accelerating the deployment of smart flow meters in urban water distribution and gas supply systems. The ability to reduce leakage, monitor consumption in real-time, and improve billing accuracy makes smart flow meters essential components in modern utility networks, thereby supporting long-term market growth.

## Segment Overview

The [smart flow meter market analysis](#) is segmented by type, communication protocol, end-user, and region. Based on type, it includes magnetic, Coriolis, ultrasonic, vortex, multiphase, thermal, and others such as turbine, variable area, and differential pressure. In 2021, magnetic flow

meters held the largest market share due to their high accuracy and reliability in measuring conductive liquids. These electromagnetic meters utilize a transmitter and sensor to deliver precise flow data using a signal-to-noise ratio. Meanwhile, the Coriolis flow meter segment is projected to witness the fastest growth rate, driven by its increasing adoption in demanding hydrogen applications where precision and long-term stability are essential.

### Regional Analysis

Asia-Pacific dominates the smart flow meter market and is expected to maintain its lead during the forecast period. This growth is attributed to rapid industrialization, urbanization, and infrastructure development in emerging economies such as China, India, and Southeast Asian countries. The expanding oil & gas, chemical, and water treatment sectors in the region are generating significant demand for precise flow measurement solutions. Additionally, government initiatives to improve water and energy management, especially in smart city projects, are further boosting the adoption of smart flow meters.

North America and Europe are also significant contributors to the smart flow meter market, driven by technological advancements and stringent environmental regulations. In North America, the presence of major industry players and widespread adoption of IIoT technologies support steady market growth. Meanwhile, Europe is witnessing increased deployment of smart flow meters in water and wastewater treatment facilities due to strict regulatory frameworks focusing on sustainability and resource efficiency. Both regions are seeing growing investment in upgrading aging infrastructure, which is creating opportunities for smart flow meter integration across various utility networks.

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### Competitive Analysis

The global smart flow meter market is highly competitive, with several key players actively engaged in product innovation, strategic partnerships, and global expansion to strengthen their market presence. Major companies such as Siemens AG, Emerson Electric Co., ABB Ltd., Yokogawa Electric Corporation, and Honeywell International Inc. are leading the market by offering a broad portfolio of smart flow meters equipped with advanced digital capabilities. These players focus on enhancing accuracy, real-time monitoring, and integration with Industrial Internet of Things (IIoT) platforms to meet the rising demand across various end-use industries, including oil & gas, water & wastewater, chemicals, and power generation.

Furthermore, many companies are investing in research and development to launch customized and application-specific solutions to cater to emerging industries such as hydrogen energy and pharmaceuticals. Strategic collaborations and mergers are common as firms aim to expand their geographical footprint and technological capabilities. For instance, companies are forming alliances with utility providers and smart infrastructure developers to integrate flow meters into larger energy and water management systems. This competitive environment is pushing

companies to continuously improve performance, reduce maintenance costs, and enhance data analytics features in their smart flow meter offerings.

#### Key Findings of the Study:

1. **Dominance of Magnetic Flow Meters:** Magnetic flow meters accounted for the largest market share due to their high accuracy and reliability in measuring conductive fluids across multiple industries.
2. **Rise of Coriolis Technology:** The Coriolis segment is projected to grow at the highest CAGR, driven by increased adoption in demanding applications such as hydrogen measurement and precision flow monitoring.
3. **Industrial Automation Driving Demand:** Growing emphasis on industrial automation and real-time process monitoring is significantly boosting the adoption of smart flow meters in sectors like oil & gas, chemical, and water treatment.
4. **Asia-Pacific Leads Growth:** The Asia-Pacific region is expected to witness substantial growth owing to rapid industrialization, urban infrastructure development, and strong investments in smart water and energy management.
5. **Focus on IIoT Integration:** Key market players are integrating smart flow meters with Industrial Internet of Things (IIoT) platforms to provide advanced data analytics, predictive maintenance, and enhanced operational efficiency.

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