

## **Flow Meters - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)**

Market Report | 2025-04-28 | 120 pages | Mordor Intelligence

### **AVAILABLE LICENSES:**

- Single User License \$4750.00
- Team License (1-7 Users) \$5250.00
- Site License \$6500.00
- Corporate License \$8750.00

### **Report description:**

The Flow Meters Market size is estimated at USD 8.55 billion in 2025, and is expected to reach USD 11.70 billion by 2030, at a CAGR of 6.47% during the forecast period (2025-2030).

Flow meters, called flow sensors, are electronic devices that primarily measure or regulate the flow rate of liquids and gases within pipes and tubes. They are commonly used in HVAC systems, medical devices, chemical factories, and septic systems. These meters can primarily detect leaks, blockages, pipe bursts, and liquid concentration changes owing to contamination or pollution.

### **Key Highlights**

- The flow sensors/devices are generally connected to the gauges to render their measurements; however, they can also be connected to computers and digital interfaces. Flow meters can be divided into two groups, contact, and non-contact flow meters. Non-contact flow meters are used when the liquid or gas (generally, a food product) being monitored would be otherwise contaminated or physically altered by coming in contact with the moving parts.
- Multiple emerging technologies, such as IIoT, asset management, and advanced diagnostics, are also helping in forming new collaborations among users and suppliers. Moreover, the strategies for both end users and suppliers have been leveraging advancements in networking and cloud platforms and service offerings that include data and analytics. Flow meters are also witnessing a steady rise in the demand for monitoring and measuring the flow of steam, gas, water, chemicals, and mineral oil, among others. These meters offer essential precision regarding ideal and economic quantity during flow measurement. They offer advantages when it comes to processing control.
- Major trends in flow meter technology include digital signals for flow meters, multiple measurement formats, online diagnosis and troubleshooting, remote calibration and configuration, and smart sensors with online alerts. The technological advancements

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

via robust research and development have also enabled the industry to develop appropriate solutions to complex operational problems. Automated cleaning is also one of the revolutionary trends observed in the market. This trend is advantageous for industries such as water and wastewater management.

- However, certain factors are projected to hinder market expansion. The existing flowmeters in the market are only sometimes compatible with modern machines and infrastructure. Therefore, there is a need to replace the existing outdated versions with newer, efficient, and compatible instruments. The expense of replacing the old instruments with the new generation of equipment might be a costly procedure. This will most certainly limit the market for Flow Meters.

- Industrial sectors, such as oil and gas, chemicals, pulp and paper, and metals and mining, were most affected due by the Covid-19 pandemic, thus witnessing a subsequent decline in the demand for products offered by these industries. However, demand significantly surged in many industrial sectors serving the pharmaceutical, energy, and utility applications. Furthermore, the pandemic also significantly fueled industrial automation adoption, resulting in increased product launches during the pandemic and innovation.

## Flow Meters Market Trends

### Electromagnetic Flow Meter Holds Significant Market Share

- Electromagnetic flow meters detect flow using Faraday's law of induction. An electromagnetic coil generates a magnetic field and electrodes that capture voltage (electromotive force) within an electromagnetic flowmeter. Due to the presence of coil and electrodes, there is nothing inside the flow pipes of an electromagnetic flow meter, and flow can be measured.

- According to Faraday's law of induction, moving conductive liquids inside the magnetic field generates voltage. The inner pipe diameter, magnetic field strength, and average flow velocity are all proportional. Also, an essential difference between electromagnetic and other flow meters is that because electromagnetic flowmeters work on electromagnetic induction, conductive liquids are the only liquids for which flow can be detected.

- Electromagnetic flowmeters have a wide range of applications in food industries, chemical applications, natural gas supplies, wastewater, mining, and power utilities. They are largely unaffected by the liquid's temperature, pressure, density, and viscosity.

- According to US Geological Survey, global copper mine production amounted to an estimated 21 million metric tons in the last year. Global copper production has steadily grown over the past decade, rising from 16 million metric tons in 2010.

- Electromagnetic flowmeters start as volumetric flow devices but can measure mass flow by plugging the product's density. The density value must remain stable for accuracy. In a few cases, a density meter is also used with electromagnetic meters to provide mass flow readings.

- For instance, mining companies often use an electromagnetic flow meter to measure slurry flow with specific liners to reduce abrasion. A densimeter sends data for the electromagnetic flowmeter to translate into an online mass flow measurement. The growth in mining activities globally is encouraging the use of electromagnetic flowmeters. According to EIA, crude oil production in the United States is expected to increase in the current year by 0.4 million b/d due to increased drilling activities, leading to flow meter adoption.

### North America is Expected to Register the Largest Market

- The North American region is expected to hold a significant market share, primarily owing to the significantly developed oil and gas, chemicals, and power generation industries. The North American renewable power generation industry is also expected to continue to invest significantly in new projects. According to IRENA, In the last year, the global installed renewable energy capacity will be 3.1 terawatts, a 9.3 percent increase over the previous year. The renewable energy sector has undergone an

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

expansion over recent decades due to decreasing pricing in renewable technologies as well as concerns about the environmental impact of more traditional sources.

- Diaphragm-positive displacement meters are widely used in the United States for commercial and utility gas flow measurement, per the Pipeline and Gas Journal report published last year. These meters are often used outside restaurants and other small businesses to measure gas consumption. Larger business establishments also use diaphragm meters to measure gas consumption, although, in many cases, the utility owns the meter. Recently, rotary meters have been replacing diaphragm meters in some applications.

- Thus, to maintain the establishment and organization of the wastewater system, many companies are making strategic acquisitions to gain the technical expertise required. For instance, in May 2021, The TASI Group of Companies acquired Mission Communication and Norcross GA to complement TASI Flow's existing Asset Management and Wireless Connectivity Strategy, enabling a strong presence in the Water and Wastewater market.

- Companies are also introducing innovative digital interfaces and software solutions in the studied segment. For instance, in February 2021, Emerson launched new software that boosts process automation with the application of the Roxar 2600 Multiphase Flow Meter (MPFM) for the oil and gas industry. Its Rapid Adaptive Measurement software architecture helps the Roxar 2600 to do the parallel calculation at 10Hz and automatically select the optimal configuration for a particular time.

## Flow Meters Industry Overview

The flow meters market is highly fragmented with the presence of major players like Yokogawa Electric Corporation, ABB Ltd, Siemens AG, Bronkhorst High-Tech BV, and Honeywell International Inc. Players in the market are adopting strategies such as partnerships, innovations, and acquisitions to enhance their product offerings and gain sustainable competitive advantage.

In September 2022, Yokogawa Electric Corporation announced the launch of the OpreXTM Magnetic Flowmeter CA Series. This new product series succeeded the ADMAG CA Series and was introduced as part of the OpreX Field Instruments family. The items in this new series are all capacitance-type magnetic flowmeters that can measure the flow of conductive fluids through a measurement tube without contacting the device's electrodes. This series has novel functionalities that increase user-friendliness, maintainability, and operational efficiency, in addition to the non-wetted electrode architecture.

In June 2022, Sensirion expanded its mass flow controller line with the SFC5500. The high-performance mass flow controllers and meters are calibrated for numerous gases. The feature includes push-in fittings, which the user from the list of suitable components can readily replace. Each device may cover a variety of flow ranges present in traditional devices. The SFC5500 is a flexible SFC5500 that can handle many applications.

### Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

### Table of Contents:

#### 1 INTRODUCTION

##### 1.1 Study Assumptions and Market Definition

##### 1.2 Scope of the Study

#### 2 RESEARCH METHODOLOGY

#### 3 EXECUTIVE SUMMARY

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

## 4 MARKET INSIGHTS

- 4.1 Market Overview
- 4.2 Industry Value Chain Analysis
- 4.3 Industry Attractiveness - Porter Five Forces
  - 4.3.1 Bargaining Power of Suppliers
  - 4.3.2 Bargaining Power of Consumers
  - 4.3.3 Threat of New Entrants
  - 4.3.4 Threat of Substitute Products
  - 4.3.5 Intensity of Competitive Rivalry
- 4.4 Recent Technological Developments
- 4.5 Assessment of the Impact of COVID-19 on the Industry

## 5 MARKET DYNAMICS

- 5.1 Market Drivers
  - 5.1.1 Penetration of IoT and Automation in Flow Rate Measurement Applications
  - 5.1.2 Growing Industrial Demand regarding Safety and Efficiency Concerns
- 5.2 Market Challenges
  - 5.2.1 Rising Cost With Product Advancement

## 6 MARKET SEGMENTATION

- 6.1 Technology
  - 6.1.1 Coriolis
  - 6.1.2 Electromagnetic
    - 6.1.2.1 In-line Magnetic Flowmeters
    - 6.1.2.2 Low Flow Magnetic Flowmeters
    - 6.1.2.3 Insertion
  - 6.1.3 Differential Pressure
  - 6.1.4 Ultrasonic
    - 6.1.4.1 Clamp-on
    - 6.1.4.2 In-line
  - 6.1.5 Other Technologies
- 6.2 End-user Industry
  - 6.2.1 Oil and Gas
  - 6.2.2 Water and Wastewater
  - 6.2.3 Chemical and Petrochemical
  - 6.2.4 Food & Beverage
  - 6.2.5 Pulp and Paper
  - 6.2.6 Other End-user Industries
- 6.3 Geography
  - 6.3.1 North America
    - 6.3.1.1 United States
    - 6.3.1.2 Canada
  - 6.3.2 Europe
    - 6.3.2.1 United Kingdom
    - 6.3.2.2 Germany
    - 6.3.2.3 France

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- 6.3.2.4 Rest of Europe
- 6.3.3 Asia Pacific
  - 6.3.3.1 China
  - 6.3.3.2 Japan
  - 6.3.3.3 India
  - 6.3.3.4 Rest of Asia Pacific
- 6.3.4 Latin America
- 6.3.5 Middle East and Africa

## 7 Competitive Landscape

- 7.1 Company Profiles
  - 7.1.1 Yokogawa Electric Corporation
  - 7.1.2 ABB Ltd
  - 7.1.3 Siemens AG
  - 7.1.4 Bronkhorst High-Tech BV
  - 7.1.5 Honeywell International Inc.
  - 7.1.6 Emerson Electric Co.
  - 7.1.7 SICK AG
  - 7.1.8 OMEGA Engineering
  - 7.1.9 Christian Burkert GmbH & Co. KG
  - 7.1.10 TSI incorporated
  - 7.1.11 Keyence Corporation
  - 7.1.12 Sensirion AG
  - 7.1.13 Azbil Corporation
  - 7.1.14 Endress+Hauser AG
  - 7.1.15 Krohne Messtechnik GmbH

## 8 INVESTMENT ANALYSIS

## 9 FUTURE OUTLOOK

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

**Flow Meters - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts  
(2025 - 2030)**

Market Report | 2025-04-28 | 120 pages | Mordor Intelligence

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scott's-international.com

**ORDER FORM:**

Select license	License	Price
	Single User License	\$4750.00
	Team License (1-7 Users)	\$5250.00
	Site License	\$6500.00
	Corporate License	\$8750.00
		VAT
		Total

\*Please circle the relevant license option. For any questions please contact support@scott's-international.com or 0048 603 394 346.

\*\* VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-02-27"/>
		Signature	

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scott's-international.com

www.scott's-international.com



**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)