

Electromagnetic Flowmeter - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2025 - 2030)

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Report description:

The Electromagnetic Flowmeter Market size is estimated at USD 14.5 billion in 2025, and is expected to reach USD 21.22 billion by 2030, at a CAGR of 7.91% during the forecast period (2025-2030).

Key Highlights

- The electromagnetic flow meter market is experiencing consistent growth, driven by advancements in technology, expanding industrial applications, and stringent environmental regulations focused on water conservation and waste management. As technology progresses, these flow meters are set to play a critical role in enhanced industrial efficiency, sustainability, and safety.
- Electromagnetic flowmeters (EMFs) are seeing increased demand across industries such as chemicals, food and beverage, pharmaceuticals, and water treatment. These sectors depend on accurate flow measurement solutions to streamline operations, maintain product quality, and adhere to regulatory requirements. EMFs offer significant advantages over traditional flow measurement technologies, including superior accuracy, minimal maintenance, and compatibility with a wide range of fluids. With the growing emphasis on operational efficiency and quality assurance, the demand for EMFs is expected to rise steadily in the coming years.
- Electromagnetic flowmeters find extensive applications in sewage treatment, water distribution, effluent measurement, and dense liquid measurements across public and private sectors. The introduction of battery-powered electromagnetic flowmeters addresses power supply challenges, broadening their appeal to smaller industries. Such developments further resulting in swift expansion of electromagnetic flow meter market.
- However, the higher cost of electromagnetic flow meters compared to mechanical or ultrasonic counterparts poses a challenge for small businesses. Installation often necessitates pipe modifications, leading to increased labor and downtime costs. Additionally, electromagnetic flow meters are limited to conductive liquids, such as water and acids, and cannot measure non-conductive fluids like oil or gases. As a result, industries focused on hydrocarbons and airflows are turning to alternative flow

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meters, such as Coriolis or ultrasonic, which has tempered market growth.

- Emerging economies in Asia-Pacific and Latin America are undergoing rapid industrial growth. These markets are increasingly adopting electromagnetic flowmeters due to their reliability and low maintenance requirements for handling challenging fluids. This trend is expected to drive the adoption of EMFs in these regions, contributing to the growth of the electromagnetic flowmeter market during the forecast period.

Electromagnetic Flowmeter Market Trends

Water and Wastewater Industry to Witness a Significant Growth

- Water management primarily relies on electromagnetic flowmeters in industrial settings. Years of dedicated research and development in sensor technology and signal processing have led to the creation of advanced electromagnetic flowmeters. These sophisticated devices can now be seamlessly integrated into complex applications that involve measuring, controlling, and regulating. The water industry grapples with numerous challenges, and at the forefront of addressing many of these is the need for precise flow measurement in both water and wastewater treatment facilities.

- The escalating demand for wastewater treatment plays a pivotal role in propelling the growth of the market in focus. As many wastewater management organizations expand their operations, they increasingly turn to electromagnetic flowmeters. Additionally, vendors in the market are customizing electromagnetic flowmeters specifically for the water and wastewater sector, further fueling this growth. For example, KROHNE's OPTIFLUX 2050 is an electromagnetic flowmeter designed for fundamental water and wastewater tasks. It offers economical bi-directional flow measurements, accommodates a broad diameter range, and boasts full approvals for drinking water applications.

- Moreover, in April 2024, ABB unveiled its latest offering, the ProcessMaster FEW630. This robust and user-friendly electromagnetic flowmeter is tailored for both municipal and industrial water and wastewater flow measurements. With this introduction, ABB aims to streamline the selection, operation, maintenance, and servicing of its flowmeters, aligning with the dynamic demands of the water and wastewater sector. The ProcessMaster FEW630 stands out by employing a modular design, allowing it to cater to a diverse array of specific needs in both municipal and industrial settings.

- The water and wastewater industry is witnessing a growing demand for electromagnetic (mag) flow meters, primarily due to increasing water insecurity. Challenges such as climate change, population growth, and rising industrial requirements are contributing to water shortages across various regions. This has amplified the need for accurate water measurement to enhance resource management.

- For example, a 2023 survey conducted by the United Nations University - Institute for Water, Environment and Health (UNU-INWEH) revealed that 5.6 billion people globally lived in water-insecure countries. Furthermore, 640 million individuals faced critical water conditions, while only one billion people resided in water-secure nations.

AsiaPacific to Emerge as the Fastest Growing Market

- Driven by technological advancements and a commitment to sustainability, the Asia-Pacific region is emerging as a vibrant market for electromagnetic flow meters, unveiling vast opportunities across diverse industries. The demand for electromagnetic flow meters in the Asia-Pacific is set to rise, fueled by heightened efforts in water conservation and wastewater treatment, a burgeoning presence of key market players, and the region's rapid industrialization and urbanization.

- Countries like China and India, with their expansive industrial activities and hefty infrastructure investments, are at the forefront of this demand in the Asia-Pacific. Moreover, government-led initiatives championing environmental sustainability and resource efficiency are amplifying the adoption of electromagnetic flow meters in these nations.

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- Several countries in the Asia-Pacific are frontrunners in water and wastewater management. The WHO underscores two pivotal strategies for enhanced wastewater management: curbing wastewater generation and embracing on-site sewage technologies. Furthermore, the Water Environment Partnership in Asia (WEPA) strengthens water governance by disseminating crucial information and insights. Such initiatives have been instrumental in propelling the region's growth.
- Strategic partnerships and acquisitions are intensifying competition in the region, fueling market growth. Global vendors are leveraging acquisitions to strengthen their regional presence and address the increasing demand for electromagnetic flow meters in emerging markets. For instance, in October 2024, Baumer, a globally recognized manufacturer of measuring devices, encoders, and sensors, acquired Manas Microsystems, a leading Indian flow meter manufacturer. This acquisition enables Baumer to integrate Manas' technologies, expertise, and client base, thereby expanding its global footprint and enhancing its portfolio of products and services for customers.

Electromagnetic Flowmeter Industry Overview

The electromagnetic flow meter market is characterized as semi-consolidated, with a few prominent vendors commanding a substantial share of the market. Leading players include ABB Ltd, Azbil Corporation, Endress+Hausar AG, Emerson Electric Corporation, Toshiba Corporation, Honeywell International Inc., and KROHNE Messtechnik GmbH, among others. These companies are actively working to strengthen their market position by forming strategic partnerships, fostering collaborations, and allocating resources toward the development and launch of innovative products. Such initiatives are aimed at enhancing their competitive advantage and capturing a larger share of the market during the forecast period. Additionally, these efforts reflect the growing emphasis on technological advancements and customer-centric solutions to address evolving industry demands.

Additional Benefits:

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

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