

Mass Flow Controller Market Size, Share & Trends Analysis Report By Type (Thermal, Coriolis, Differential Pressure), By Flow Element (Liquid, Gas), By Flow Rate, By End-user, By Region, And Segment Forecasts, 2024 - 2030

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Abstracts

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Mass Flow Controller Market Growth & Trends

The global mass flow controller market size is anticipated to reach USD 3.50 billion by 2030, according to a new report by Grand View Research, Inc. The market is expected to expand at a CAGR of 13.3% from 2024 to 2030. The increasing consumption of packaged foods and beverages due to the rising working-class population is driving the demand for mass flow controllers (MFCs). According to the International Trade Center (ITC), the global beverage imports in 2022 increased by 22% from 2018 due to increased demand for beverages worldwide. Mass flow controllers are widely employed in the food and beverage industry to accurately measure and regulate the flow of liquids and gases. These controllers are pivotal in ensuring consistency and quality in food and beverage production processes. They are primarily used to regulate the flow of gases, such as nitrogen, carbon dioxide, and oxygen, and are used for packaging, bottling, and other processes. Additionally, they are utilized to measure the flow of liquids such as water and flavorings in beverage production. By precisely controlling the flow of these substances, mass flow controllers ensure that food and beverages are produced according to precise specifications, resulting in consistent taste, texture, and quality.

The COVID-19 pandemic significantly impacted the mass flow controller market. The widespread disruption to global supply chains and manufacturing operations affected

the demand for mass flow controllers. Many manufacturers have had to scale back production or temporarily shut down their operations, leading to a decrease in demand for mass flow controllers in specific industries. However, the pandemic has also created new opportunities for using mass flow controllers in medical applications, such as ventilators and oxygen concentrators. Overall, the market had experienced a period of uncertainty but recovered as the world adjusted to the new normal and demand for mass flow controllers continued to grow.

Furthermore, the rising need for clean energy is driving the market. MFCs are crucial in the development and optimization of fuel cells. Fuel cells are electrochemical devices that convert chemical energy directly into electrical energy, and they are an environmentally friendly alternative to traditional power generation methods. In a typical fuel cell system, gases such as hydrogen and oxygen (or air) are supplied to the electrodes, and MFCs ensure a carefully controlled and balanced supply. This precision is essential for optimizing the electrochemical reactions that occur within the fuel cell.

Mass Flow Controller Market Report Highlights

Based on type, the thermal mass flow controller segment accounted for the highest revenue share of 37.7% in 2023. This can be attributed to the increase in the number of laboratory studies. The coriolis mass flow controller segment is expected to witness the fastest growth, led by its emerging need in chemical processing.

Based on flow element, the gas segment dominated the market in 2023 and is expected to grow at a significant CAGR over the forecast period. It can be attributed to its uses in environmental monitoring.

Based on the flow rate, the medium flow is expected to grow significantly over the forecast period, owing to the increasing demand in gas blending applications.

Based on end-user, the semiconductor segment held the largest share of the market in 2023. Mass flow controllers are increasingly adopted in the semiconductor industry due to the growing importance of precise gas flow control in semiconductor fabrication processes.

Key companies in the market include Brooks Instrument, MKS Instruments, Bronkhorst High-Tech B.V., Sierra Instruments, Alicat Scientific, Teledyne

Hastings Instruments, HORIBA STEC, Sensirion AG, Aalborg Instruments & Controls, Inc., Tokyo Keiso Co., Ltd.; Thermal Instrument Company; Omega Engineering; Teledyne Tekmar; Sensyflow.

In January 2024, Alicat Scientific announced the expansion of its hydrogen MFC and mass flow meters (MFM) product line with 10,000 SLPM full-scale flow to cater to the need for efficient and accurate control in hydrogen-based applications. The new portfolio features a 12,000 SLPM flow rate, 320 PSIA pressure range, and -10 degree Celsius to +60 degree Celsius temperature range.

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