

Mass Flow Controller Market to Reach USD 2.16 Billion by 2032 Driven by increasing demand for semiconductor sector

The growing use of MFCs in biopharmaceutical production, medical equipment, and analytical devices supports market expansion

AUSTIN, TX, UNITED STATES, November 22, 2024 /EINPresswire.com/ -- The [Mass Flow Controller Market](#) Size was valued at USD 1.32 Billion in 2023 and is now anticipated to grow to USD 2.16 Billion by 2032, displaying a compound annual growth rate (CAGR) of 5.61% during the forecast period 2024-2032.



Rapid Growth of the Mass Flow Controller Market: Driving Precision and Efficiency Across Industries

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Driven by advancements in semiconductor manufacturing, the Mass Flow Controller market is experiencing robust growth as industries increasingly require precision in gas and liquid flow control”

SNS Insider

The Mass Flow Controller Market is expanding rapidly as industries increasingly demand more accurate, efficient, and automated flow control solutions. Mass flow controllers are widely used to regulate and measure the flow of gases and liquids in a variety of applications, including semiconductor manufacturing, pharmaceutical production, and food processing. In the semiconductor industry, MFCs are integral to regulating the flow of gases used in the deposition of thin films on silicon wafers, ensuring precise manufacturing standards. The food and beverage industry also plays a critical role in the demand for MFCs, particularly in processes such as mixing,

blending, and bottling. Liquid mass flow controllers, which manage the flow of liquids in production lines, are essential for maintaining consistency in product quality and meeting regulatory standards. The MFC market is also seeing growth in industries such as biotechnology,

automotive, and aerospace, where precision flow control is critical.

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Major Players of Mass Flow Controller Market

Bronkhorst, Brooks Instrument, MKS Instruments, Alicat Scientific, Sierra Instruments, Inc., Teledyne Hastings Instruments, Horiba, Sensirion AG, PARKER HANNIFIN CORP, Proterial Ltd, New Hills Pumping Inc and others.

Segmentation: Market Dominance of Liquid Mass Flow Controllers in the Food & Beverage and Semiconductor Industries

By Medium: The liquid mass flow controller segment is dominating the market, contributing 37.63% of the total revenue. Liquid mass flow controllers (MFCs) are vital in the food and beverage industry, ensuring precise regulation of liquid flow during processes such as blending, mixing, and bottling. These controllers help maintain consistent product quality by accurately measuring and controlling the amount of liquid, preventing errors and waste.

By Industry: The semiconductor industry is the dominant player in the market, representing 36% of the total revenue. Mass flow controllers (MFCs) play a crucial role in managing the flow of precursor gases like silane, ammonia, and tungsten hexafluoride during semiconductor manufacturing. These gases are essential for depositing thin films on silicon wafers, a key step in microchip production. MFCs ensure precise control of gas flow, which is critical for maintaining quality and consistency in semiconductor fabrication.

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Key Market Segments

By Medium

- Gas
- Liquid
- Others

By Industry

- Semiconductors
- oil & gas
- Chemical
- Pharmaceuticals
- food & beverages
- water & wastewater treatment
- metals & mining

- others

Key Regional Development: Asia-Pacific Leads Mass Flow Controller Market, While North America Emerges as Fastest-Growing Region

The Asia-Pacific region dominates the Mass Flow Controller market, holding a 36% share of the total market. Leading countries like China, Japan, South Korea, and Taiwan are major producers of electronic devices such as mobile phones, laptops, and consumer electronics, which rely on advanced semiconductor components. This growing demand for semiconductors boosts the need for MFCs in semiconductor production.

North America is the fastest-growing region, the expansion of the semiconductor industry and the rising adoption of Mass Flow Controllers (MFCs) in sectors like pharmaceuticals and food processing are driving demand for precision flow control systems in North America. The United States and Canada, in particular, are witnessing significant growth in this market. This surge is fueled by advancements in manufacturing technologies that enhance the performance of flow control systems.

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Recent Developments

In January 2023: HORIBA India established a Semiconductor Mass Flow Controller (MFC) Repair and Calibration facility at its Technical Center in Pune. This move is aimed at providing high-quality maintenance and calibration services to support the semiconductor industry's demand for precise flow control.

In January 2024: Bronkhorst expanded its product range by launching the MASS STREAM D-6400 Series Mass Flow Meter/Controller. The new series offers enhanced accuracy and efficiency in gas flow measurement, catering to industries such as semiconductor manufacturing and research.

In March 2024: Brooks Instrument introduced the GF120xHT Series, a high-temperature thermal mass flow controller. This new product is specifically designed to handle solid and liquid precursors essential for semiconductor manufacturing, providing precise flow control at elevated temperatures.

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