

Global Digital Thermal Mass Flow Controllers Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

<https://marketpublishers.com/r/GBE8FFB7CD06EN.html>

Date: October 2025

Pages: 112

Price: US\$ 3,480.00 (Single User License)

ID: GBE8FFB7CD06EN

Abstracts

According to our (Global Info Research) latest study, the global Digital Thermal Mass Flow Controllers market size was valued at US\$ 183 million in 2024 and is forecast to a readjusted size of USD 256 million by 2031 with a CAGR of 5.0% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

A Digital Thermal Mass Flow Controller (DTMFC) is an advanced device used to measure and control the flow rate of gases with high precision. It operates based on the principle of thermal mass flow measurement, which is different from traditional volumetric flow measurement methods. The key feature of a DTMFC is that it measures the mass flow of the gas, rather than just the volume, which makes it more accurate and less affected by fluctuations in temperature and pressure.

This report is a detailed and comprehensive analysis for global Digital Thermal Mass Flow Controllers market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Digital Thermal Mass Flow Controllers market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Digital Thermal Mass Flow Controllers market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Digital Thermal Mass Flow Controllers market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Digital Thermal Mass Flow Controllers market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Digital Thermal Mass Flow Controllers
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Digital Thermal Mass Flow Controllers market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include HORIBA, Bronkhorst, MKS Instruments, Kobold Messring, Brooks Instrument, Azbil Corporation, Sierra Instruments, Teledyne, Omega, Hitachi Metals, Ltd, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Digital Thermal Mass Flow Controllers market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Large Range (300SLM~3000SLM)

Medium Range (30SLM~300SLM)

Low RSange (5SCCM~30SLM)

Market segment by Application

Semiconductor Manufacturing

Fuel Cells and Hydrogen Systems:

Chemical and Pharmaceutical

General Industry

Others

Major players covered

HORIBA

Bronkhorst

MKS Instruments

Kobold Messring

Brooks Instrument

Azbil Corporation

Sierra Instruments

Teledyne

Omega

Hitachi Metals, Ltd

Beijing Huacheng Electronics

Kofloc

Accu-Flo

IKNOW-Meter

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Digital Thermal Mass Flow Controllers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Digital Thermal Mass Flow Controllers, with price, sales quantity, revenue, and global market share of Digital Thermal Mass Flow Controllers from 2020 to 2025.

Chapter 3, the Digital Thermal Mass Flow Controllers competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Digital Thermal Mass Flow Controllers breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Digital Thermal Mass Flow Controllers market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Digital Thermal Mass Flow Controllers.

Chapter 14 and 15, to describe Digital Thermal Mass Flow Controllers sales channel, distributors, customers, research findings and conclusion.

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