

Global Thermal Mass Flow Meter Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GC682595490EEN.html>

Date: June 2026

Pages: 164

Price: US\$ 4,480.00 (Single User License)

ID: GC682595490EEN

Abstracts

The global Thermal Mass Flow Meter market size is expected to reach \$ 1725 million by 2032, rising at a market growth of 5.1% CAGR during the forecast period (2026-2032).

Thermal Mass Flow Meters are instruments used to measure the mass flow rate of fluids. They measure the mass flow rate of fluids by using the temperature field changes generated when the fluid flows through a pipe heated by an external heat source, or by using the relationship between the energy required to raise the temperature of the fluid to a certain value and the mass of the fluid when the fluid is heated. Thermal mass flowmeters are mainly used to measure the mass flow rate of gases, and have the characteristics of low pressure loss, large flow range, high accuracy, high repeatability and high reliability. In 2025, global Thermal Mass Flow Meter production reached approximately 912 k units, with an average global market price of around 1300 US\$/Unit. The production capacity of Thermal Mass Flow Meter reaches 1200 k units, and the industry's gross profit margin is approximately between 20% and 40%.

The market demand for thermal mass flow meters continues to grow, mainly driven by multiple factors such as the increased demand for accurate gas measurement driven by industrial energy conservation and emission reduction policies, the strengthening of environmental regulations requiring emission monitoring and combustion efficiency optimization, the improvement of process automation and data transparency driven by intelligent manufacturing upgrades, and the reliance of emerging industries such as semiconductors and hydrogen energy on high-purity or high-precision control of special gases. At the same time, its technical advantages of not requiring temperature and pressure compensation, low maintenance costs, and wide range ratio have made it widely used in replacing traditional differential pressure or vortex flow meters.

This report studies the global Thermal Mass Flow Meter production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thermal Mass Flow Meter and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Thermal Mass Flow Meter that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Thermal Mass Flow Meter total production and demand, 2021-2032, (K Units)

Global Thermal Mass Flow Meter total production value, 2021-2032, (USD Million)

Global Thermal Mass Flow Meter production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Thermal Mass Flow Meter consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Thermal Mass Flow Meter domestic production, consumption, key domestic manufacturers and share

Global Thermal Mass Flow Meter production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Thermal Mass Flow Meter production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Thermal Mass Flow Meter production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Thermal Mass Flow Meter market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ABB, Bronkhorst, Brooks Instrument, Endress+Hauser, Azbil, Fluid Components International, Fox Thermal, H?ntzsch, Kobold Messring GmbH, KOFLOC, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Thermal Mass Flow Meter market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Thermal Mass Flow Meter Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thermal Mass Flow Meter Market, Segmentation by Type:

Insertion Flow Meter

Inline Flow Meter

Global Thermal Mass Flow Meter Market, Segmentation by Measuring Medium:

Thermal Gas Mass Flow Meter

Thermal Liquid Mass Flow Meter

Global Thermal Mass Flow Meter Market, Segmentation by Measurement Principle:

Constant Power Type

Constant Temperature Difference Type

Global Thermal Mass Flow Meter Market, Segmentation by Application:

Industrial Process Control

Environmental Protection and Energy

Semiconductor Industry

Others

Companies Profiled:

ABB

Bronkhorst

Brooks Instrument

Endress+Hauser

Azbil

Fluid Components International

Fox Thermal

H?ntzsch

Kobold Messring GmbH

KOFLOC

Korea Flowmeter Industrial

Sierra Instruments

MKS Instruments

OMEGA Engineering

ONICON

OVAL Corporation

SmartMeasurement

TOKYO KEISO

AMETEK LMS

V?gtlin Instruments

VorTek Instruments

Hefei Comate Intelligent Sensor Technology

Key Questions Answered:

1. How big is the global Thermal Mass Flow Meter market?
2. What is the demand of the global Thermal Mass Flow Meter market?
3. What is the year over year growth of the global Thermal Mass Flow Meter market?
4. What is the production and production value of the global Thermal Mass Flow Meter market?
5. Who are the key producers in the global Thermal Mass Flow Meter market?
6. What are the growth factors driving the market demand?

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