

Global Thermal Mass Flow Meter and Thermal Flow Switch Market Growth 2026-2032

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Abstracts

The global Thermal Mass Flow Meter and Thermal Flow Switch market size is predicted to grow from US\$ 558 million in 2025 to US\$ 789 million in 2032; it is expected to grow at a CAGR of 5.3% from 2026 to 2032.

In 2025, the global sales volume of Thermal Mass Flow Meters was approximately 71,000 units, with an average price of around 1,582 US dollars per unit. The sales volume of Thermal Flow Switches reached about 4.861 million units, at an average price of approximately 94 US dollars per unit. The average gross profit margin of the industry was roughly 32%. Thermal Mass Flow Meters and Thermal Flow Switches are fluid measurement and monitoring instruments based on thermal dispersion and heat transfer principles, mainly used for flow detection of gases and some clean liquids. A Thermal Mass Flow Meter measures mass flow directly by detecting the heat loss of a heated probe caused by fluid flow without temperature and pressure compensation. It features good low-flow response, wide turndown ratio and easy installation, usually divided into insertion and inline types, widely used in industrial process gas measurement. A Thermal Flow Switch adopts the same sensing principle but only outputs switching signals for over-limit alarm, pump protection and loop monitoring. It has compact structure, fast response and strong anti-interference ability. Both consist of core components including temperature sensing elements, heating units and signal processing modules, performing critical measurement and safety control in chemical, energy, environmental protection, semiconductor and other industries.

Driven by industrial intelligence and safety control upgrading, the demand for thermal mass flow meters and thermal flow switches maintains steady growth. As industries attach greater importance to accurate gas measurement, energy consumption monitoring and equipment safety protection, the application scenarios continue to

expand. The industry is developing toward high precision, digitalization, intelligence and special adaptation such as explosion-proof and anti-corrosion. Domestic manufacturers are gradually catching up with international brands in technology and reliability, leading to continuous optimization of the market structure. Boosted by energy transition, strict environmental regulations and the popularization of industrial automation, the industry enjoys long-term growth potential. High-end segments and customized solutions have become the focus of competition, while technological accumulation and scenario-based service capabilities will form the core competitiveness of enterprises.

LP Information, Inc. (LPI) ' newest research report, the "Thermal Mass Flow Meter and Thermal Flow Switch Industry Forecast" looks at past sales and reviews total world Thermal Mass Flow Meter and Thermal Flow Switch sales in 2025, providing a comprehensive analysis by region and market sector of projected Thermal Mass Flow Meter and Thermal Flow Switch sales for 2026 through 2032. With Thermal Mass Flow Meter and Thermal Flow Switch sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Thermal Mass Flow Meter and Thermal Flow Switch industry.

This Insight Report provides a comprehensive analysis of the global Thermal Mass Flow Meter and Thermal Flow Switch landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Thermal Mass Flow Meter and Thermal Flow Switch portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Thermal Mass Flow Meter and Thermal Flow Switch market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Thermal Mass Flow Meter and Thermal Flow Switch and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Thermal Mass Flow Meter and Thermal Flow Switch.

This report presents a comprehensive overview, market shares, and growth opportunities of Thermal Mass Flow Meter and Thermal Flow Switch market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Thermal Mass Flow Meter

Thermal Flow Switch

Segmentation by Measured Medium:

Gas Flow

Liquid Flow

Segmentation by Application:

Oil and Gas

Electric Power Industry

Chemical Industry

Metallurgy

Food and Beverage

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

SUTO iTEC GmbH

hanghai Chunye Instrument Technology Co., Ltd.

Bronkhorst

Hoentzsch

Comate Smart Sensor

Endress+Hauser

Chongqing Chuanyi Automation Co.,Ltd.

KOBOLD

Zibo Xichuang Measurement and Control Technology

Fluid Components LLC.

Tianjin Sure Instrument Co.,Ltd

Sierra Instruments

Brooks Instrument

Jiangsu Zhongnan Instrument Technology Co., Ltd.

Fox Thermal

KOFLOC

MKS Instruments

OMEGA Engineering

ONICON

OVAL Corporation

SmartMeasurement

TOKYO KEISO

Magnetrol (AMETEK)

V?gtlin Instruments

VorTek Instruments

Key Questions Addressed in this Report

What is the 10-year outlook for the global Thermal Mass Flow Meter and Thermal Flow Switch market?

What factors are driving Thermal Mass Flow Meter and Thermal Flow Switch market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Thermal Mass Flow Meter and Thermal Flow Switch market opportunities vary by end market size?

How does Thermal Mass Flow Meter and Thermal Flow Switch break out by Type, by Application?

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