

# Global Thermal Mass Flow Meter and Thermal Flow Switch Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GADF056B37C3EN.html>

Date: May 2026

Pages: 161

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

ID: GADF056B37C3EN

## Abstracts

According to our (Global Info Research) latest study, the global Thermal Mass Flow Meter and Thermal Flow Switch market size was valued at US\$ 587 million in 2025 and is forecast to a readjusted size of US\$ 815 million by 2032 with a CAGR of 5.0% during review period.

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.

This report is a detailed and comprehensive analysis for global Thermal Mass Flow Meter and Thermal Flow Switch 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 Thermal Mass Flow Meter and Thermal Flow Switch market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Thermal Mass Flow Meter and Thermal Flow Switch market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Thermal Mass Flow Meter and Thermal Flow Switch market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Thermal Mass Flow Meter and Thermal Flow Switch market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

### **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 Thermal Mass Flow Meter and Thermal Flow Switch

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 Thermal Mass Flow Meter and Thermal Flow Switch 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 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., etc.

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

## **Market Segmentation**

Thermal Mass Flow Meter and Thermal Flow Switch market is split by Type and by Application. For the period 2021-2032, 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

Thermal Mass Flow Meter

Thermal Flow Switch

Market segment by Measured Medium

Gas Flow

Liquid Flow

#### Market segment by Application

Oil and Gas

Electric Power Industry

Chemical Industry

Metallurgy

Food and Beverage

Others

#### Major players covered

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

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 Thermal Mass Flow Meter and Thermal Flow Switch product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thermal Mass Flow Meter and Thermal Flow Switch, with price, sales quantity, revenue, and global market share of Thermal Mass Flow Meter and Thermal Flow Switch from 2021 to 2026.

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

Chapter 4, the Thermal Mass Flow Meter and Thermal Flow Switch breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Thermal Mass Flow Meter and Thermal Flow Switch market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Thermal Mass Flow Meter and Thermal Flow Switch.

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

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Thermal Mass Flow Meter and Thermal Flow Switch  
Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Thermal Mass Flow Meter

1.3.3 Thermal Flow Switch

1.4 Market Analysis by Measured Medium

1.4.1 Overview: Global Thermal Mass Flow Meter and Thermal Flow Switch  
Consumption Value by Measured Medium: 2021 Versus 2025 Versus 2032

1.4.2 Gas Flow

1.4.3 Liquid Flow

1.5 Market Analysis by Application

1.5.1 Overview: Global Thermal Mass Flow Meter and Thermal Flow Switch  
Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.5.2 Oil and Gas

1.5.3 Electric Power Industry

1.5.4 Chemical Industry

1.5.5 Metallurgy

1.5.6 Food and Beverage

1.5.7 Others

1.6 Global Thermal Mass Flow Meter and Thermal Flow Switch Market Size & Forecast

1.6.1 Global Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value  
(2021 & 2025 & 2032)

1.6.2 Global Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity  
(2021-2032)

1.6.3 Global Thermal Mass Flow Meter and Thermal Flow Switch Average Price  
(2021-2032)

### 2 MANUFACTURERS PROFILES

2.1 SUTO iTEC GmbH

2.1.1 SUTO iTEC GmbH Details

2.1.2 SUTO iTEC GmbH Major Business

2.1.3 SUTO iTEC GmbH Thermal Mass Flow Meter and Thermal Flow Switch Product

## and Services

2.1.4 SUTO iTEC GmbH Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 SUTO iTEC GmbH Recent Developments/Updates

## 2.2 hanghai Chunye Instrument Technology Co., Ltd.

2.2.1 hanghai Chunye Instrument Technology Co., Ltd. Details

2.2.2 hanghai Chunye Instrument Technology Co., Ltd. Major Business

2.2.3 hanghai Chunye Instrument Technology Co., Ltd. Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

2.2.4 hanghai Chunye Instrument Technology Co., Ltd. Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 hanghai Chunye Instrument Technology Co., Ltd. Recent Developments/Updates

## 2.3 Bronkhorst

2.3.1 Bronkhorst Details

2.3.2 Bronkhorst Major Business

2.3.3 Bronkhorst Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

2.3.4 Bronkhorst Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Bronkhorst Recent Developments/Updates

## 2.4 Hoentzsch

2.4.1 Hoentzsch Details

2.4.2 Hoentzsch Major Business

2.4.3 Hoentzsch Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

2.4.4 Hoentzsch Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Hoentzsch Recent Developments/Updates

## 2.5 Comate Smart Sensor

2.5.1 Comate Smart Sensor Details

2.5.2 Comate Smart Sensor Major Business

2.5.3 Comate Smart Sensor Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

2.5.4 Comate Smart Sensor Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Comate Smart Sensor Recent Developments/Updates

## 2.6 Endress+Hauser

2.6.1 Endress+Hauser Details

- 2.6.2 Endress+Hauser Major Business
- 2.6.3 Endress+Hauser Thermal Mass Flow Meter and Thermal Flow Switch Product and Services
- 2.6.4 Endress+Hauser Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.6.5 Endress+Hauser Recent Developments/Updates
- 2.7 Chongqing Chuanyi Automation Co.,Ltd.
  - 2.7.1 Chongqing Chuanyi Automation Co.,Ltd. Details
  - 2.7.2 Chongqing Chuanyi Automation Co.,Ltd. Major Business
  - 2.7.3 Chongqing Chuanyi Automation Co.,Ltd. Thermal Mass Flow Meter and Thermal Flow Switch Product and Services
  - 2.7.4 Chongqing Chuanyi Automation Co.,Ltd. Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.7.5 Chongqing Chuanyi Automation Co.,Ltd. Recent Developments/Updates
- 2.8 KOBOLD
  - 2.8.1 KOBOLD Details
  - 2.8.2 KOBOLD Major Business
  - 2.8.3 KOBOLD Thermal Mass Flow Meter and Thermal Flow Switch Product and Services
  - 2.8.4 KOBOLD Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.8.5 KOBOLD Recent Developments/Updates
- 2.9 Zibo Xichuang Measurement and Control Technology
  - 2.9.1 Zibo Xichuang Measurement and Control Technology Details
  - 2.9.2 Zibo Xichuang Measurement and Control Technology Major Business
  - 2.9.3 Zibo Xichuang Measurement and Control Technology Thermal Mass Flow Meter and Thermal Flow Switch Product and Services
  - 2.9.4 Zibo Xichuang Measurement and Control Technology Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.9.5 Zibo Xichuang Measurement and Control Technology Recent Developments/Updates
- 2.10 Fluid Components LLC.
  - 2.10.1 Fluid Components LLC. Details
  - 2.10.2 Fluid Components LLC. Major Business
  - 2.10.3 Fluid Components LLC. Thermal Mass Flow Meter and Thermal Flow Switch Product and Services
  - 2.10.4 Fluid Components LLC. Thermal Mass Flow Meter and Thermal Flow Switch

Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Fluid Components LLC. Recent Developments/Updates

2.11 Tianjin Sure Instrument Co.,Ltd

2.11.1 Tianjin Sure Instrument Co.,Ltd Details

2.11.2 Tianjin Sure Instrument Co.,Ltd Major Business

2.11.3 Tianjin Sure Instrument Co.,Ltd Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

2.11.4 Tianjin Sure Instrument Co.,Ltd Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Tianjin Sure Instrument Co.,Ltd Recent Developments/Updates

2.12 Sierra Instruments

2.12.1 Sierra Instruments Details

2.12.2 Sierra Instruments Major Business

2.12.3 Sierra Instruments Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

2.12.4 Sierra Instruments Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Sierra Instruments Recent Developments/Updates

2.13 Brooks Instrument

2.13.1 Brooks Instrument Details

2.13.2 Brooks Instrument Major Business

2.13.3 Brooks Instrument Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

2.13.4 Brooks Instrument Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 Brooks Instrument Recent Developments/Updates

2.14 Jiangsu Zhongnan Instrument Technology Co., Ltd.

2.14.1 Jiangsu Zhongnan Instrument Technology Co., Ltd. Details

2.14.2 Jiangsu Zhongnan Instrument Technology Co., Ltd. Major Business

2.14.3 Jiangsu Zhongnan Instrument Technology Co., Ltd. Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

2.14.4 Jiangsu Zhongnan Instrument Technology Co., Ltd. Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 Jiangsu Zhongnan Instrument Technology Co., Ltd. Recent Developments/Updates

2.15 Fox Thermal

2.15.1 Fox Thermal Details

- 2.15.2 Fox Thermal Major Business
- 2.15.3 Fox Thermal Thermal Mass Flow Meter and Thermal Flow Switch Product and Services
- 2.15.4 Fox Thermal Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.15.5 Fox Thermal Recent Developments/Updates
- 2.16 KOFLOC
  - 2.16.1 KOFLOC Details
  - 2.16.2 KOFLOC Major Business
  - 2.16.3 KOFLOC Thermal Mass Flow Meter and Thermal Flow Switch Product and Services
  - 2.16.4 KOFLOC Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.16.5 KOFLOC Recent Developments/Updates
- 2.17 MKS Instruments
  - 2.17.1 MKS Instruments Details
  - 2.17.2 MKS Instruments Major Business
  - 2.17.3 MKS Instruments Thermal Mass Flow Meter and Thermal Flow Switch Product and Services
  - 2.17.4 MKS Instruments Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.17.5 MKS Instruments Recent Developments/Updates
- 2.18 OMEGA Engineering
  - 2.18.1 OMEGA Engineering Details
  - 2.18.2 OMEGA Engineering Major Business
  - 2.18.3 OMEGA Engineering Thermal Mass Flow Meter and Thermal Flow Switch Product and Services
  - 2.18.4 OMEGA Engineering Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.18.5 OMEGA Engineering Recent Developments/Updates
- 2.19 ONICON
  - 2.19.1 ONICON Details
  - 2.19.2 ONICON Major Business
  - 2.19.3 ONICON Thermal Mass Flow Meter and Thermal Flow Switch Product and Services
  - 2.19.4 ONICON Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.19.5 ONICON Recent Developments/Updates
- 2.20 OVAL Corporation

- 2.20.1 OVAL Corporation Details
- 2.20.2 OVAL Corporation Major Business
- 2.20.3 OVAL Corporation Thermal Mass Flow Meter and Thermal Flow Switch Product and Services
- 2.20.4 OVAL Corporation Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.20.5 OVAL Corporation Recent Developments/Updates
- 2.21 SmartMeasurement
  - 2.21.1 SmartMeasurement Details
  - 2.21.2 SmartMeasurement Major Business
  - 2.21.3 SmartMeasurement Thermal Mass Flow Meter and Thermal Flow Switch Product and Services
  - 2.21.4 SmartMeasurement Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.21.5 SmartMeasurement Recent Developments/Updates
- 2.22 TOKYO KEISO
  - 2.22.1 TOKYO KEISO Details
  - 2.22.2 TOKYO KEISO Major Business
  - 2.22.3 TOKYO KEISO Thermal Mass Flow Meter and Thermal Flow Switch Product and Services
  - 2.22.4 TOKYO KEISO Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.22.5 TOKYO KEISO Recent Developments/Updates
- 2.23 Magnetrol (AMETEK)
  - 2.23.1 Magnetrol (AMETEK) Details
  - 2.23.2 Magnetrol (AMETEK) Major Business
  - 2.23.3 Magnetrol (AMETEK) Thermal Mass Flow Meter and Thermal Flow Switch Product and Services
  - 2.23.4 Magnetrol (AMETEK) Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.23.5 Magnetrol (AMETEK) Recent Developments/Updates
- 2.24 V?gtlin Instruments
  - 2.24.1 V?gtlin Instruments Details
  - 2.24.2 V?gtlin Instruments Major Business
  - 2.24.3 V?gtlin Instruments Thermal Mass Flow Meter and Thermal Flow Switch Product and Services
  - 2.24.4 V?gtlin Instruments Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
  - 2.24.5 V?gtlin Instruments Recent Developments/Updates

## 2.25 VorTek Instruments

### 2.25.1 VorTek Instruments Details

### 2.25.2 VorTek Instruments Major Business

### 2.25.3 VorTek Instruments Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

### 2.25.4 VorTek Instruments Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

### 2.25.5 VorTek Instruments Recent Developments/Updates

## **3 COMPETITIVE ENVIRONMENT: THERMAL MASS FLOW METER AND THERMAL FLOW SWITCH BY MANUFACTURER**

### 3.1 Global Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Manufacturer (2021-2026)

### 3.2 Global Thermal Mass Flow Meter and Thermal Flow Switch Revenue by Manufacturer (2021-2026)

### 3.3 Global Thermal Mass Flow Meter and Thermal Flow Switch Average Price by Manufacturer (2021-2026)

### 3.4 Market Share Analysis (2025)

#### 3.4.1 Producer Shipments of Thermal Mass Flow Meter and Thermal Flow Switch by Manufacturer Revenue (\$MM) and Market Share (%): 2025

#### 3.4.2 Top 3 Thermal Mass Flow Meter and Thermal Flow Switch Manufacturer Market Share in 2025

#### 3.4.3 Top 6 Thermal Mass Flow Meter and Thermal Flow Switch Manufacturer Market Share in 2025

### 3.5 Thermal Mass Flow Meter and Thermal Flow Switch Market: Overall Company Footprint Analysis

#### 3.5.1 Thermal Mass Flow Meter and Thermal Flow Switch Market: Region Footprint

#### 3.5.2 Thermal Mass Flow Meter and Thermal Flow Switch Market: Company Product Type Footprint

#### 3.5.3 Thermal Mass Flow Meter and Thermal Flow Switch Market: Company Product Application Footprint

### 3.6 New Market Entrants and Barriers to Market Entry

### 3.7 Mergers, Acquisition, Agreements, and Collaborations

## **4 CONSUMPTION ANALYSIS BY REGION**

### 4.1 Global Thermal Mass Flow Meter and Thermal Flow Switch Market Size by Region

#### 4.1.1 Global Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by

## Region (2021-2032)

4.1.2 Global Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value by Region (2021-2032)

4.1.3 Global Thermal Mass Flow Meter and Thermal Flow Switch Average Price by Region (2021-2032)

4.2 North America Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032)

4.3 Europe Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032)

4.4 Asia-Pacific Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032)

4.5 South America Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032)

4.6 Middle East & Africa Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032)

## 5 MARKET SEGMENT BY TYPE

5.1 Global Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Type (2021-2032)

5.2 Global Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value by Type (2021-2032)

5.3 Global Thermal Mass Flow Meter and Thermal Flow Switch Average Price by Type (2021-2032)

## 6 MARKET SEGMENT BY APPLICATION

6.1 Global Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Application (2021-2032)

6.2 Global Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value by Application (2021-2032)

6.3 Global Thermal Mass Flow Meter and Thermal Flow Switch Average Price by Application (2021-2032)

## 7 NORTH AMERICA

7.1 North America Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Type (2021-2032)

7.2 North America Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity

by Application (2021-2032)

7.3 North America Thermal Mass Flow Meter and Thermal Flow Switch Market Size by Country

7.3.1 North America Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Country (2021-2032)

7.3.2 North America Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value by Country (2021-2032)

7.3.3 United States Market Size and Forecast (2021-2032)

7.3.4 Canada Market Size and Forecast (2021-2032)

7.3.5 Mexico Market Size and Forecast (2021-2032)

## **8 EUROPE**

8.1 Europe Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Type (2021-2032)

8.2 Europe Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Application (2021-2032)

8.3 Europe Thermal Mass Flow Meter and Thermal Flow Switch Market Size by Country

8.3.1 Europe Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Country (2021-2032)

8.3.2 Europe Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value by Country (2021-2032)

8.3.3 Germany Market Size and Forecast (2021-2032)

8.3.4 France Market Size and Forecast (2021-2032)

8.3.5 United Kingdom Market Size and Forecast (2021-2032)

8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

## **9 ASIA-PACIFIC**

9.1 Asia-Pacific Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Thermal Mass Flow Meter and Thermal Flow Switch Market Size by Region

9.3.1 Asia-Pacific Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Thermal Mass Flow Meter and Thermal Flow Switch Consumption

## Value by Region (2021-2032)

- 9.3.3 China Market Size and Forecast (2021-2032)
- 9.3.4 Japan Market Size and Forecast (2021-2032)
- 9.3.5 South Korea Market Size and Forecast (2021-2032)
- 9.3.6 India Market Size and Forecast (2021-2032)
- 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
- 9.3.8 Australia Market Size and Forecast (2021-2032)

## **10 SOUTH AMERICA**

- 10.1 South America Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Type (2021-2032)
- 10.2 South America Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Application (2021-2032)
- 10.3 South America Thermal Mass Flow Meter and Thermal Flow Switch Market Size by Country
  - 10.3.1 South America Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Country (2021-2032)
  - 10.3.2 South America Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value by Country (2021-2032)
  - 10.3.3 Brazil Market Size and Forecast (2021-2032)
  - 10.3.4 Argentina Market Size and Forecast (2021-2032)

## **11 MIDDLE EAST & AFRICA**

- 11.1 Middle East & Africa Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Type (2021-2032)
- 11.2 Middle East & Africa Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Thermal Mass Flow Meter and Thermal Flow Switch Market Size by Country
  - 11.3.1 Middle East & Africa Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Country (2021-2032)
  - 11.3.2 Middle East & Africa Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value by Country (2021-2032)
  - 11.3.3 Turkey Market Size and Forecast (2021-2032)
  - 11.3.4 Egypt Market Size and Forecast (2021-2032)
  - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
  - 11.3.6 South Africa Market Size and Forecast (2021-2032)

## **12 MARKET DYNAMICS**

- 12.1 Thermal Mass Flow Meter and Thermal Flow Switch Market Drivers
- 12.2 Thermal Mass Flow Meter and Thermal Flow Switch Market Restraints
- 12.3 Thermal Mass Flow Meter and Thermal Flow Switch Trends Analysis
- 12.4 Porters Five Forces Analysis
  - 12.4.1 Threat of New Entrants
  - 12.4.2 Bargaining Power of Suppliers
  - 12.4.3 Bargaining Power of Buyers
  - 12.4.4 Threat of Substitutes
  - 12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

- 13.1 Raw Material of Thermal Mass Flow Meter and Thermal Flow Switch and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Thermal Mass Flow Meter and Thermal Flow Switch
- 13.3 Thermal Mass Flow Meter and Thermal Flow Switch Production Process
- 13.4 Industry Value Chain Analysis

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

- 14.1 Sales Channel
  - 14.1.1 Direct to End-User
  - 14.1.2 Distributors
- 14.2 Thermal Mass Flow Meter and Thermal Flow Switch Typical Distributors
- 14.3 Thermal Mass Flow Meter and Thermal Flow Switch Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value by Measured Medium, (USD Million), 2021 & 2025 & 2032

Table 3. Global Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 4. SUTO iTEC GmbH Basic Information, Manufacturing Base and Competitors

Table 5. SUTO iTEC GmbH Major Business

Table 6. SUTO iTEC GmbH Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

Table 7. SUTO iTEC GmbH Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 8. SUTO iTEC GmbH Recent Developments/Updates

Table 9. hanghai Chunye Instrument Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 10. hanghai Chunye Instrument Technology Co., Ltd. Major Business

Table 11. hanghai Chunye Instrument Technology Co., Ltd. Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

Table 12. hanghai Chunye Instrument Technology Co., Ltd. Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 13. hanghai Chunye Instrument Technology Co., Ltd. Recent Developments/Updates

Table 14. Bronkhorst Basic Information, Manufacturing Base and Competitors

Table 15. Bronkhorst Major Business

Table 16. Bronkhorst Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

Table 17. Bronkhorst Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 18. Bronkhorst Recent Developments/Updates

Table 19. Hoentzsch Basic Information, Manufacturing Base and Competitors

Table 20. Hoentzsch Major Business

Table 21. Hoentzsch Thermal Mass Flow Meter and Thermal Flow Switch Product and

## Services

Table 22. Hoentzsch Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 23. Hoentzsch Recent Developments/Updates

Table 24. Comate Smart Sensor Basic Information, Manufacturing Base and Competitors

Table 25. Comate Smart Sensor Major Business

Table 26. Comate Smart Sensor Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

Table 27. Comate Smart Sensor Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 28. Comate Smart Sensor Recent Developments/Updates

Table 29. Endress+Hauser Basic Information, Manufacturing Base and Competitors

Table 30. Endress+Hauser Major Business

Table 31. Endress+Hauser Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

Table 32. Endress+Hauser Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 33. Endress+Hauser Recent Developments/Updates

Table 34. Chongqing Chuanyi Automation Co.,Ltd. Basic Information, Manufacturing Base and Competitors

Table 35. Chongqing Chuanyi Automation Co.,Ltd. Major Business

Table 36. Chongqing Chuanyi Automation Co.,Ltd. Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

Table 37. Chongqing Chuanyi Automation Co.,Ltd. Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 38. Chongqing Chuanyi Automation Co.,Ltd. Recent Developments/Updates

Table 39. KOBOLD Basic Information, Manufacturing Base and Competitors

Table 40. KOBOLD Major Business

Table 41. KOBOLD Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

Table 42. KOBOLD Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 43. KOBOLD Recent Developments/Updates

Table 44. Zibo Xichuang Measurement and Control Technology Basic Information, Manufacturing Base and Competitors

Table 45. Zibo Xichuang Measurement and Control Technology Major Business

Table 46. Zibo Xichuang Measurement and Control Technology Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

Table 47. Zibo Xichuang Measurement and Control Technology Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 48. Zibo Xichuang Measurement and Control Technology Recent Developments/Updates

Table 49. Fluid Components LLC. Basic Information, Manufacturing Base and Competitors

Table 50. Fluid Components LLC. Major Business

Table 51. Fluid Components LLC. Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

Table 52. Fluid Components LLC. Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 53. Fluid Components LLC. Recent Developments/Updates

Table 54. Tianjin Sure Instrument Co.,Ltd Basic Information, Manufacturing Base and Competitors

Table 55. Tianjin Sure Instrument Co.,Ltd Major Business

Table 56. Tianjin Sure Instrument Co.,Ltd Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

Table 57. Tianjin Sure Instrument Co.,Ltd Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 58. Tianjin Sure Instrument Co.,Ltd Recent Developments/Updates

Table 59. Sierra Instruments Basic Information, Manufacturing Base and Competitors

Table 60. Sierra Instruments Major Business

Table 61. Sierra Instruments Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

Table 62. Sierra Instruments Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 63. Sierra Instruments Recent Developments/Updates

Table 64. Brooks Instrument Basic Information, Manufacturing Base and Competitors

Table 65. Brooks Instrument Major Business

Table 66. Brooks Instrument Thermal Mass Flow Meter and Thermal Flow Switch

## Product and Services

Table 67. Brooks Instrument Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 68. Brooks Instrument Recent Developments/Updates

Table 69. Jiangsu Zhongnan Instrument Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 70. Jiangsu Zhongnan Instrument Technology Co., Ltd. Major Business

Table 71. Jiangsu Zhongnan Instrument Technology Co., Ltd. Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

Table 72. Jiangsu Zhongnan Instrument Technology Co., Ltd. Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 73. Jiangsu Zhongnan Instrument Technology Co., Ltd. Recent Developments/Updates

Table 74. Fox Thermal Basic Information, Manufacturing Base and Competitors

Table 75. Fox Thermal Major Business

Table 76. Fox Thermal Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

Table 77. Fox Thermal Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Fox Thermal Recent Developments/Updates

Table 79. KOFLOC Basic Information, Manufacturing Base and Competitors

Table 80. KOFLOC Major Business

Table 81. KOFLOC Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

Table 82. KOFLOC Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 83. KOFLOC Recent Developments/Updates

Table 84. MKS Instruments Basic Information, Manufacturing Base and Competitors

Table 85. MKS Instruments Major Business

Table 86. MKS Instruments Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

Table 87. MKS Instruments Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 88. MKS Instruments Recent Developments/Updates

- Table 89. OMEGA Engineering Basic Information, Manufacturing Base and Competitors
- Table 90. OMEGA Engineering Major Business
- Table 91. OMEGA Engineering Thermal Mass Flow Meter and Thermal Flow Switch Product and Services
- Table 92. OMEGA Engineering Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 93. OMEGA Engineering Recent Developments/Updates
- Table 94. ONICON Basic Information, Manufacturing Base and Competitors
- Table 95. ONICON Major Business
- Table 96. ONICON Thermal Mass Flow Meter and Thermal Flow Switch Product and Services
- Table 97. ONICON Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 98. ONICON Recent Developments/Updates
- Table 99. OVAL Corporation Basic Information, Manufacturing Base and Competitors
- Table 100. OVAL Corporation Major Business
- Table 101. OVAL Corporation Thermal Mass Flow Meter and Thermal Flow Switch Product and Services
- Table 102. OVAL Corporation Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. OVAL Corporation Recent Developments/Updates
- Table 104. SmartMeasurement Basic Information, Manufacturing Base and Competitors
- Table 105. SmartMeasurement Major Business
- Table 106. SmartMeasurement Thermal Mass Flow Meter and Thermal Flow Switch Product and Services
- Table 107. SmartMeasurement Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 108. SmartMeasurement Recent Developments/Updates
- Table 109. TOKYO KEISO Basic Information, Manufacturing Base and Competitors
- Table 110. TOKYO KEISO Major Business
- Table 111. TOKYO KEISO Thermal Mass Flow Meter and Thermal Flow Switch Product and Services
- Table 112. TOKYO KEISO Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 113. TOKYO KEISO Recent Developments/Updates

Table 114. Magnetrol (AMETEK) Basic Information, Manufacturing Base and Competitors

Table 115. Magnetrol (AMETEK) Major Business

Table 116. Magnetrol (AMETEK) Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

Table 117. Magnetrol (AMETEK) Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 118. Magnetrol (AMETEK) Recent Developments/Updates

Table 119. V?gtlin Instruments Basic Information, Manufacturing Base and Competitors

Table 120. V?gtlin Instruments Major Business

Table 121. V?gtlin Instruments Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

Table 122. V?gtlin Instruments Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 123. V?gtlin Instruments Recent Developments/Updates

Table 124. VorTek Instruments Basic Information, Manufacturing Base and Competitors

Table 125. VorTek Instruments Major Business

Table 126. VorTek Instruments Thermal Mass Flow Meter and Thermal Flow Switch Product and Services

Table 127. VorTek Instruments Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 128. VorTek Instruments Recent Developments/Updates

Table 129. Global Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 130. Global Thermal Mass Flow Meter and Thermal Flow Switch Revenue by Manufacturer (2021-2026) & (USD Million)

Table 131. Global Thermal Mass Flow Meter and Thermal Flow Switch Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 132. Market Position of Manufacturers in Thermal Mass Flow Meter and Thermal Flow Switch, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 133. Head Office and Thermal Mass Flow Meter and Thermal Flow Switch Production Site of Key Manufacturer

Table 134. Thermal Mass Flow Meter and Thermal Flow Switch Market: Company Product Type Footprint

Table 135. Thermal Mass Flow Meter and Thermal Flow Switch Market: Company

## Product Application Footprint

Table 136. Thermal Mass Flow Meter and Thermal Flow Switch New Market Entrants and Barriers to Market Entry

Table 137. Thermal Mass Flow Meter and Thermal Flow Switch Mergers, Acquisition, Agreements, and Collaborations

Table 138. Global Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 139. Global Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Region (2021-2026) & (K Units)

Table 140. Global Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Region (2027-2032) & (K Units)

Table 141. Global Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value by Region (2021-2026) & (USD Million)

Table 142. Global Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value by Region (2027-2032) & (USD Million)

Table 143. Global Thermal Mass Flow Meter and Thermal Flow Switch Average Price by Region (2021-2026) & (US\$/Unit)

Table 144. Global Thermal Mass Flow Meter and Thermal Flow Switch Average Price by Region (2027-2032) & (US\$/Unit)

Table 145. Global Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Type (2021-2026) & (K Units)

Table 146. Global Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Type (2027-2032) & (K Units)

Table 147. Global Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value by Type (2021-2026) & (USD Million)

Table 148. Global Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value by Type (2027-2032) & (USD Million)

Table 149. Global Thermal Mass Flow Meter and Thermal Flow Switch Average Price by Type (2021-2026) & (US\$/Unit)

Table 150. Global Thermal Mass Flow Meter and Thermal Flow Switch Average Price by Type (2027-2032) & (US\$/Unit)

Table 151. Global Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Application (2021-2026) & (K Units)

Table 152. Global Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Application (2027-2032) & (K Units)

Table 153. Global Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value by Application (2021-2026) & (USD Million)

Table 154. Global Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value by Application (2027-2032) & (USD Million)

Table 155. Global Thermal Mass Flow Meter and Thermal Flow Switch Average Price by Application (2021-2026) & (US\$/Unit)

Table 156. Global Thermal Mass Flow Meter and Thermal Flow Switch Average Price by Application (2027-2032) & (US\$/Unit)

Table 157. North America Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Type (2021-2026) & (K Units)

Table 158. North America Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Type (2027-2032) & (K Units)

Table 159. North America Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Application (2021-2026) & (K Units)

Table 160. North America Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Application (2027-2032) & (K Units)

Table 161. North America Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Country (2021-2026) & (K Units)

Table 162. North America Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Country (2027-2032) & (K Units)

Table 163. North America Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value by Country (2021-2026) & (USD Million)

Table 164. North America Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value by Country (2027-2032) & (USD Million)

Table 165. Europe Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Type (2021-2026) & (K Units)

Table 166. Europe Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Type (2027-2032) & (K Units)

Table 167. Europe Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Application (2021-2026) & (K Units)

Table 168. Europe Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Application (2027-2032) & (K Units)

Table 169. Europe Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Country (2021-2026) & (K Units)

Table 170. Europe Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Country (2027-2032) & (K Units)

Table 171. Europe Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value by Country (2021-2026) & (USD Million)

Table 172. Europe Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value by Country (2027-2032) & (USD Million)

Table 173. Asia-Pacific Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Type (2021-2026) & (K Units)

Table 174. Asia-Pacific Thermal Mass Flow Meter and Thermal Flow Switch Sales

Quantity by Type (2027-2032) & (K Units)

Table 175. Asia-Pacific Thermal Mass Flow Meter and Thermal Flow Switch Sales

Quantity by Application (2021-2026) & (K Units)

Table 176. Asia-Pacific Thermal Mass Flow Meter and Thermal Flow Switch Sales

Quantity by Application (2027-2032) & (K Units)

Table 177. Asia-Pacific Thermal Mass Flow Meter and Thermal Flow Switch Sales

Quantity by Region (2021-2026) & (K Units)

Table 178. Asia-Pacific Thermal Mass Flow Meter and Thermal Flow Switch Sales

Quantity by Region (2027-2032) & (K Units)

Table 179. Asia-Pacific Thermal Mass Flow Meter and Thermal Flow Switch

Consumption Value by Region (2021-2026) & (USD Million)

Table 180. Asia-Pacific Thermal Mass Flow Meter and Thermal Flow Switch

Consumption Value by Region (2027-2032) & (USD Million)

Table 181. South America Thermal Mass Flow Meter and Thermal Flow Switch Sales

Quantity by Type (2021-2026) & (K Units)

Table 182. South America Thermal Mass Flow Meter and Thermal Flow Switch Sales

Quantity by Type (2027-2032) & (K Units)

Table 183. South America Thermal Mass Flow Meter and Thermal Flow Switch Sales

Quantity by Application (2021-2026) & (K Units)

Table 184. South America Thermal Mass Flow Meter and Thermal Flow Switch Sales

Quantity by Application (2027-2032) & (K Units)

Table 185. South America Thermal Mass Flow Meter and Thermal Flow Switch Sales

Quantity by Country (2021-2026) & (K Units)

Table 186. South America Thermal Mass Flow Meter and Thermal Flow Switch Sales

Quantity by Country (2027-2032) & (K Units)

Table 187. South America Thermal Mass Flow Meter and Thermal Flow Switch

Consumption Value by Country (2021-2026) & (USD Million)

Table 188. South America Thermal Mass Flow Meter and Thermal Flow Switch

Consumption Value by Country (2027-2032) & (USD Million)

Table 189. Middle East & Africa Thermal Mass Flow Meter and Thermal Flow Switch

Sales Quantity by Type (2021-2026) & (K Units)

Table 190. Middle East & Africa Thermal Mass Flow Meter and Thermal Flow Switch

Sales Quantity by Type (2027-2032) & (K Units)

Table 191. Middle East & Africa Thermal Mass Flow Meter and Thermal Flow Switch

Sales Quantity by Application (2021-2026) & (K Units)

Table 192. Middle East & Africa Thermal Mass Flow Meter and Thermal Flow Switch

Sales Quantity by Application (2027-2032) & (K Units)

Table 193. Middle East & Africa Thermal Mass Flow Meter and Thermal Flow Switch

Sales Quantity by Country (2021-2026) & (K Units)

Table 194. Middle East & Africa Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity by Country (2027-2032) & (K Units)

Table 195. Middle East & Africa Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value by Country (2021-2026) & (USD Million)

Table 196. Middle East & Africa Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value by Country (2027-2032) & (USD Million)

Table 197. Thermal Mass Flow Meter and Thermal Flow Switch Raw Material

Table 198. Key Manufacturers of Thermal Mass Flow Meter and Thermal Flow Switch Raw Materials

Table 199. Thermal Mass Flow Meter and Thermal Flow Switch Typical Distributors

Table 200. Thermal Mass Flow Meter and Thermal Flow Switch Typical Customers

## List Of Figures

### LIST OF FIGURES

- Figure 1. Thermal Mass Flow Meter and Thermal Flow Switch Picture
- Figure 2. Global Thermal Mass Flow Meter and Thermal Flow Switch Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Thermal Mass Flow Meter and Thermal Flow Switch Revenue Market Share by Type in 2025
- Figure 4. Thermal Mass Flow Meter Examples
- Figure 5. Thermal Flow Switch Examples
- Figure 6. Global Thermal Mass Flow Meter and Thermal Flow Switch Revenue by Measured Medium, (USD Million), 2021 & 2025 & 2032
- Figure 7. Global Thermal Mass Flow Meter and Thermal Flow Switch Revenue Market Share by Measured Medium in 2025
- Figure 8. Gas Flow Examples
- Figure 9. Liquid Flow Examples
- Figure 10. Global Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 11. Global Thermal Mass Flow Meter and Thermal Flow Switch Revenue Market Share by Application in 2025
- Figure 12. Oil and Gas Examples
- Figure 13. Electric Power Industry Examples
- Figure 14. Chemical Industry Examples
- Figure 15. Metallurgy Examples
- Figure 16. Food and Beverage Examples
- Figure 17. Others Examples
- Figure 18. Global Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 19. Global Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 20. Global Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity (2021-2032) & (K Units)
- Figure 21. Global Thermal Mass Flow Meter and Thermal Flow Switch Price (2021-2032) & (US\$/Unit)
- Figure 22. Global Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity Market Share by Manufacturer in 2025
- Figure 23. Global Thermal Mass Flow Meter and Thermal Flow Switch Revenue Market Share by Manufacturer in 2025

- Figure 24. Producer Shipments of Thermal Mass Flow Meter and Thermal Flow Switch by Manufacturer Sales (\$MM) and Market Share (%): 2025
- Figure 25. Top 3 Thermal Mass Flow Meter and Thermal Flow Switch Manufacturer (Revenue) Market Share in 2025
- Figure 26. Top 6 Thermal Mass Flow Meter and Thermal Flow Switch Manufacturer (Revenue) Market Share in 2025
- Figure 27. Global Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity Market Share by Region (2021-2032)
- Figure 28. Global Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value Market Share by Region (2021-2032)
- Figure 29. North America Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032) & (USD Million)
- Figure 30. Europe Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032) & (USD Million)
- Figure 31. Asia-Pacific Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032) & (USD Million)
- Figure 32. South America Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032) & (USD Million)
- Figure 33. Middle East & Africa Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032) & (USD Million)
- Figure 34. Global Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity Market Share by Type (2021-2032)
- Figure 35. Global Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value Market Share by Type (2021-2032)
- Figure 36. Global Thermal Mass Flow Meter and Thermal Flow Switch Average Price by Type (2021-2032) & (US\$/Unit)
- Figure 37. Global Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity Market Share by Application (2021-2032)
- Figure 38. Global Thermal Mass Flow Meter and Thermal Flow Switch Revenue Market Share by Application (2021-2032)
- Figure 39. Global Thermal Mass Flow Meter and Thermal Flow Switch Average Price by Application (2021-2032) & (US\$/Unit)
- Figure 40. North America Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity Market Share by Type (2021-2032)
- Figure 41. North America Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity Market Share by Application (2021-2032)
- Figure 42. North America Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity Market Share by Country (2021-2032)
- Figure 43. North America Thermal Mass Flow Meter and Thermal Flow Switch

Consumption Value Market Share by Country (2021-2032)

Figure 44. United States Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032) & (USD Million)

Figure 45. Canada Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032) & (USD Million)

Figure 46. Mexico Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032) & (USD Million)

Figure 47. Europe Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity Market Share by Type (2021-2032)

Figure 48. Europe Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity Market Share by Application (2021-2032)

Figure 49. Europe Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity Market Share by Country (2021-2032)

Figure 50. Europe Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value Market Share by Country (2021-2032)

Figure 51. Germany Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032) & (USD Million)

Figure 52. France Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032) & (USD Million)

Figure 53. United Kingdom Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032) & (USD Million)

Figure 54. Russia Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032) & (USD Million)

Figure 55. Italy Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032) & (USD Million)

Figure 56. Asia-Pacific Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity Market Share by Type (2021-2032)

Figure 57. Asia-Pacific Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity Market Share by Application (2021-2032)

Figure 58. Asia-Pacific Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity Market Share by Region (2021-2032)

Figure 59. Asia-Pacific Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value Market Share by Region (2021-2032)

Figure 60. China Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032) & (USD Million)

Figure 61. Japan Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032) & (USD Million)

Figure 62. South Korea Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032) & (USD Million)

Figure 63. India Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032) & (USD Million)

Figure 64. Southeast Asia Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032) & (USD Million)

Figure 65. Australia Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032) & (USD Million)

Figure 66. South America Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity Market Share by Type (2021-2032)

Figure 67. South America Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity Market Share by Application (2021-2032)

Figure 68. South America Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity Market Share by Country (2021-2032)

Figure 69. South America Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value Market Share by Country (2021-2032)

Figure 70. Brazil Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032) & (USD Million)

Figure 71. Argentina Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032) & (USD Million)

Figure 72. Middle East & Africa Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity Market Share by Type (2021-2032)

Figure 73. Middle East & Africa Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity Market Share by Application (2021-2032)

Figure 74. Middle East & Africa Thermal Mass Flow Meter and Thermal Flow Switch Sales Quantity Market Share by Country (2021-2032)

Figure 75. Middle East & Africa Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value Market Share by Country (2021-2032)

Figure 76. Turkey Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032) & (USD Million)

Figure 77. Egypt Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032) & (USD Million)

Figure 78. Saudi Arabia Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032) & (USD Million)

Figure 79. South Africa Thermal Mass Flow Meter and Thermal Flow Switch Consumption Value (2021-2032) & (USD Million)

Figure 80. Thermal Mass Flow Meter and Thermal Flow Switch Market Drivers

Figure 81. Thermal Mass Flow Meter and Thermal Flow Switch Market Restraints

Figure 82. Thermal Mass Flow Meter and Thermal Flow Switch Market Trends

Figure 83. Porters Five Forces Analysis

Figure 84. Manufacturing Cost Structure Analysis of Thermal Mass Flow Meter and

Thermal Flow Switch in 2025

Figure 85. Manufacturing Process Analysis of Thermal Mass Flow Meter and Thermal Flow Switch

Figure 86. Thermal Mass Flow Meter and Thermal Flow Switch Industrial Chain

Figure 87. Sales Channel: Direct to End-User vs Distributors

Figure 88. Direct Channel Pros & Cons

Figure 89. Indirect Channel Pros & Cons

Figure 90. Methodology

Figure 91. Research Process and Data Source

## I would like to order

Product name: Global Thermal Mass Flow Meter and Thermal Flow Switch Market 2026 by  
Manufacturers, Regions, Type and Application, Forecast to 2032

Product link: <https://marketpublishers.com/r/GADF056B37C3EN.html>

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

If you want to order Corporate License or Hard Copy, please, contact our Customer  
Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click  
button on product page <https://marketpublishers.com/r/GADF056B37C3EN.html>