

# Global MEMS E-Cigarette Airflow Sensor Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global MEMS E-Cigarette Airflow Sensor market size is expected to reach \$ 640 million by 2032, rising at a market growth of 9.9% CAGR during the forecast period (2026-2032).

In 2025, global MEMS e-cigarette airflow sensor production reached approximately 4,535 million units, with an average global market price of around US\$71 per k units. MEMS e-cigarette airflow sensor, also called MEMS microphone, is a crucial component in e-cigarettes, based on Micro-Electro-Mechanical System technology. It consists of microstructures like a diaphragm and electrodes. When a user takes a puff, the airflow change causes the diaphragm to vibrate, which is then transformed into an electrical signal through mechanisms such as piezoresistive or capacitive effects. This signal is sent to the e-cigarette's control unit, enabling it to accurately detect the suction action, regulate the atomizer's power, and adjust the vapor output accordingly. With features of high sensitivity, quick response, compact size, and excellent stability, it ensures a smooth and consistent vaping experience.

The MEMS airflow sensor for e-cigarettes is undergoing a critical upgrade phase from traditional Electret Condenser Microphones (ECM) to high-performance MEMS technology. The core driver of its current development lies in technological advantages: MEMS solutions offer better performance in oil resistance, consistency, and reliability, addressing the pain points of traditional products, leading to rapidly increasing market penetration. The current development trend is characterized by continuous technological iteration, such as the development of programmable MEMS micro-differential pressure sensors targeting the mid-to-high-end market. Leading companies are providing comprehensive solutions from chips to modules to cover the entire spectrum of high, mid, and low-end e-cigarette products. The main growth opportunities stem from the continuous expansion of the global e-cigarette market, alongside the technological replacement demand driven by user experience upgrades and regulatory

compliance requirements. However, the industry faces significant obstacles: the volatile global regulatory policies for e-cigarettes may impact market growth, and intensified competition necessitates ongoing technological innovation and supply chain integration for companies to maintain competitiveness.

This report studies the global MEMS E-Cigarette Airflow Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for MEMS E-Cigarette Airflow Sensor 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 MEMS E-Cigarette Airflow Sensor that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global MEMS E-Cigarette Airflow Sensor total production and demand, 2021-2032, (Million Units)

Global MEMS E-Cigarette Airflow Sensor total production value, 2021-2032, (USD Million)

Global MEMS E-Cigarette Airflow Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global MEMS E-Cigarette Airflow Sensor consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: MEMS E-Cigarette Airflow Sensor domestic production, consumption, key domestic manufacturers and share

Global MEMS E-Cigarette Airflow Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global MEMS E-Cigarette Airflow Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global MEMS E-Cigarette Airflow Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global MEMS E-Cigarette Airflow Sensor 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 Memsensing Microsystems, Knowles, Changsha Dawei Semiconductor, Goertek Microelectronics, ACC, STMicroelectronics, Hotchip Technology, Shenzhen Tongyue Electronics, Shandong Signal Electronics Technology, Huajing Sensing Technology, 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 MEMS E-Cigarette Airflow Sensor market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million Units) and average price (US\$/K Units) 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 MEMS E-Cigarette Airflow Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global MEMS E-Cigarette Airflow Sensor Market, Segmentation by Type:

SMD Type

Leaded Type

Global MEMS E-Cigarette Airflow Sensor Market, Segmentation by Integration:

Empty Microphone

Signal Microphone

Integrated Power Microphone

## Global MEMS E-Cigarette Airflow Sensor Market, Segmentation by Signal Output:

Analog MEMS Microphone

Digital MEMS Microphone

## Global MEMS E-Cigarette Airflow Sensor Market, Segmentation by Application:

Open System E-cigarette

Reloadable E-cigarette

Disposable E-cigarette

## **Companies Profiled:**

Memsensing Microsystems

Knowles

Changsha Dawei Semiconductor

Goertek Microelectronics

ACC

STMicroelectronics

Hotchip Technology

Shenzhen Tongyue Electronics

Shandong Signal Electronics Technology

Huajing Sensing Technology

## Simistep Technology

### **Key Questions Answered:**

1. How big is the global MEMS E-Cigarette Airflow Sensor market?
2. What is the demand of the global MEMS E-Cigarette Airflow Sensor market?
3. What is the year over year growth of the global MEMS E-Cigarette Airflow Sensor market?
4. What is the production and production value of the global MEMS E-Cigarette Airflow Sensor market?
5. Who are the key producers in the global MEMS E-Cigarette Airflow Sensor market?
6. What are the growth factors driving the market demand?

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