

# Global MEMS Air Velocity Sensor Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global MEMS Air Velocity Sensor market size is expected to reach \$ 473 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032). MEMS anemometers are miniature sensors based on microelectromechanical systems (MEMS) technology, used for highly sensitive and fast-response measurement of airflow speed and direction. They typically employ thermal, piezoresistive, or capacitive sensing principles and are widely used in HVAC, automotive electronics, industrial automation, environmental monitoring, and smart devices to achieve precise airflow control and energy efficiency management. The MEMS anemometer industry chain includes upstream silicon wafers, MEMS manufacturing materials, ASIC chips, packaging substrates, and calibration equipment; midstream sensor design, wafer manufacturing, packaging, testing, and signal conditioning integration; and downstream applications covering HVAC equipment manufacturers, automotive OEMs, industrial equipment manufacturers, consumer electronics, and environmental monitoring solution providers. Supporting services include sensor calibration, system integration, and after-sales technical support. In 2025, global MEMS anemometer production was approximately 10,179,000 units, with a global average market price of approximately US\$28 per unit. The gross profit margin of major companies in the industry ranged from 30% to 50%. In 2025, global MEMS anemometer production capacity was approximately 13,571,000 units.

The MEMS Air Velocity Sensor market is driven by growing demand for energy-efficient HVAC systems, smart buildings, and automotive airflow management. Miniaturization, low power consumption, and high integration capability make MEMS sensors increasingly preferred over traditional airflow sensors. Adoption is further supported by industrial automation and environmental monitoring needs. As smart devices and IoT applications expand, manufacturers focus on improving accuracy, long-term stability, and cost efficiency to address large-scale deployment requirements.

This report studies the global MEMS Air Velocity Sensor production, demand, key manufacturers, and key regions.

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

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

Global MEMS Air Velocity Sensor total production and demand, 2021-2032, (K Units)

Global MEMS Air Velocity Sensor total production value, 2021-2032, (USD Million)

Global MEMS Air Velocity Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global MEMS Air Velocity Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: MEMS Air Velocity Sensor domestic production, consumption, key domestic manufacturers and share

Global MEMS Air Velocity Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global MEMS Air Velocity Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global MEMS Air Velocity Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global MEMS Air Velocity 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 Renesas, NMB Technologies, Posifa, Siargo, Winsen, Xinnovis, ASAIR, Firstrate Sensor, OMRON, Flusso, 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 Air Velocity Sensor 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 MEMS Air Velocity Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global MEMS Air Velocity Sensor Market, Segmentation by Type:

Thermal (Hot-wire / Hot-film) MEMS Air Velocity Sensor

Differential Pressure MEMS Air Velocity Sensor

Capacitive MEMS Flow Sensor

Global MEMS Air Velocity Sensor Market, Segmentation by Output Signal:

Analog Output MEMS Air Velocity Sensor

Digital Output MEMS Air Velocity Sensor

Global MEMS Air Velocity Sensor Market, Segmentation by Measurement Type:

Air Velocity Sensors

Air Flow Rate Sensors

## Bidirectional / Directional Flow Sensors

### Global MEMS Air Velocity Sensor Market, Segmentation by Application:

Environmental Test

Medical Industry

Chemical

Aviation

Meteorological

Others

### Companies Profiled:

Renesas

NMB Technologies

Posifa

Siargo

Winsen

Xinnovis

ASAIR

Firstrate Sensor

OMRON

Flusso

MinebeaMitsumi Inc.

CFSensor

OMEGA Engineering, Inc.

**Key Questions Answered:**

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

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