

# Global Black Carbon Sensor Devices for Air/Gas Monitoring Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global Black Carbon Sensor Devices for Air/Gas Monitoring market size will reach 10.41 Million USD in 2025 and is projected to reach 9.12 Million USD by 2032, with a CAGR of -1.87% (2025-2032). Notably, the China Black Carbon Sensor Devices for Air/Gas Monitoring market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

Black carbon sensor devices for air/gas monitoring are instruments designed to measure the concentration and levels of black carbon particles in the atmosphere. Black carbon, also known as soot, is a fine particulate matter that is produced by incomplete combustion of fossil fuels, biomass burning, and other combustion processes. These sensor devices utilize specific detection methods, such as optical techniques, to quantify the amount of black carbon present in the air or gas samples. They provide real-time or near real-time data on black carbon levels, allowing researchers, environmental agencies, and industries to monitor and assess air pollution, especially in urban areas or near pollution sources. Black carbon sensor devices play a vital role in understanding the impact of particulate pollution on human health, climate change, and air quality management. They enable the identification of pollution sources, evaluation of mitigation measures, and formulation of effective environmental policies.

The major global manufacturers of Black Carbon Sensor Devices for Air/Gas Monitoring

include Magee Scientific, AethLabs, KANOMAX, MetOne, Teledyne API, Artium, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Black Carbon Sensor Devices for Air/Gas Monitoring. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Black Carbon Sensor Devices for Air/Gas Monitoring market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Black Carbon Sensor Devices for Air/Gas Monitoring market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Black Carbon Sensor Devices for Air/Gas Monitoring industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

**Global Key Manufacturers of Black Carbon Sensor Devices for Air/Gas Monitoring Include:**

Magee Scientific

AethLabs

KANOMAX

MetOne

Teledyne API

Artium

Black Carbon Sensor Devices for Air/Gas Monitoring Product Segment Include:

Handheld Type

Desktop Type

Black Carbon Sensor Devices for Air/Gas Monitoring Product Application Include:

Environmental Monitoring Center & Meteorological Bureau

Center for Disease Control

Institute/University

Others

## **Chapter Scope**

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