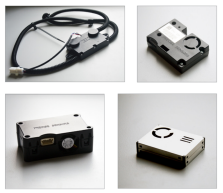
Air Quality Sensor for Environmental Monitoring

This air quality sensor offers high reliability and a long service life. It is suitable for integration into various monitoring systems to detect pollutants and particulate matter.



Product Overview

High-Precision Automotive Air Quality Sensing

This high-reliability air quality sensor is specifically engineered for real-time PM2.5 monitoring within automobile passenger compartments. Designed for seamless integration into vehicle air conditioning systems, it offers a long service life and consistent performance. The sensor provides precise environmental data to ensure a healthy and comfortable cabin environment for passengers.

Key Performance Metrics

Performance Highlights

12 V	200 Hz	500 ug/m³
Rated Voltage	PWM Frequency	Max Detection Range

Technical Specifications

Detailed technical specifications including PWM output details and automotive application scope.

Rated Voltage	12 V
Output Signal Type	PWM Waveform
PWM Frequency	200 Hz
Effective Duty Cycle	10% - 85% (Low Level)
PM2.5 Concentration Range	0 - 500 ug/m³

Features & Control

Control Features

- Enable control end included
- Real-time PM2.5 concentration detection
- High reliability sensing element
- Long service life design

Applications

Primary Use Case

Automobile Air Conditioning • Passenger Compartment Monitoring • Environmental Analysis

Physical Characteristics

Design Characteristics	Compact, Energy-Efficient, Robust Housing, Precise