

PM2.5 Air Quality Module (PMSA003)



Description

Introducing the **PM2.5 Air Quality Module**: The Ultimate Ambient Air Quality Testing Solution

Accurate Air Quality Monitoring: The PM2.5 Air Quality Module is a cutting-edge solution for measuring ambient air quality. It uses **PMSA003** digital universal particulate matter concentration sensor to collect and calculate the number of suspended particles of various sizes in the air per unit volume.

Versatile Deployment: Having a simple and reliable design, the PM2.5 Air Quality Module can be easily deployed in various scenarios. Whether in everyday life or industrial settings, this module can serve as an invaluable tool for environmental data collection. It can be

utilized to gather vital information on air quality or provide real-time and accurate concentration data for instruments or equipment for improving the environment.

Quick and Reliable Measurements: It is designed to deliver fast and reliable measurements. The efficient sensor technology ensures rapid data collection, allowing for real-time monitoring and analysis of suspended particulate matter in the air. This enables prompt decision-making and intervention when necessary, promoting a healthier and safer environment.

Seamless Integration: The PM2.5 Air Quality Module seamlessly integrates with existing systems and equipment. Its compatibility with other instruments and environmental improvement devices makes it an essential component of comprehensive air quality monitoring and improvement solutions. By providing accurate concentration data, it aids in optimizing air quality management strategies.

Data-Driven Environmental Improvement: By utilizing the PM2.5 Air Quality Module, you gain access to precise and reliable data on suspended particulate matter in the air. This data empowers you to make informed decisions and implement targeted measures to improve air quality. Whether it's for personal health, industrial compliance, or environmental initiatives, this module plays a crucial role in driving positive change.

Experience the power of accurate and efficient ambient air quality testing with the PM2.5 Air Quality Module. Its advanced sensor technology, versatile deployment options, and seamless integration capabilities make it an indispensable tool for environmental monitoring and improvement efforts.

Features

- DC 5V
- Compatible with M5stack stackable and extension system.
- M5Core pedestal (Pin out SPI/I2C/Power)
- USB Type-c port

Includes

- 1x PM2.5 base
- 1x Type-c cable
- 2x M3×14 screw
- 1x HEX KEY

Applications

Ambient PM2.5 measurement

Specification

Resources	Parameters
PM2.5 Sensor	PMSA003
Minimum resolution particle size	0.3 μ m
Particulate matter mass concentration resolution	1 μ g/m ³
Particulate matter measurement range	0.3-1.0 ; 1.0-2.5 ; 2.5-10 μ m
Supply voltage	5v
Operating temperature	0~+40°C
Operating humidity range	0~99%
Product Size	63mm × 52mm × 46mm
Package Size	125mm × 67mm × 23mm
Product Weight	70g
Package Weight	135g