



PM10 / PM2.5 Portable Particulate Monitor



(<https://d2pwrxbx99jwry6.cloudfront.net/wp-content/uploads/sh-pm-sensor-series-500-1.jpg>).

ENQUIRE NOW » ([HTTPS://WWW.AEROQUAL.COM/PORTABLE-PARTICULATE-MONITOR-ENQUIRY](https://www.aeroqual.com/portable-particulate-monitor-enquiry))

BENEFITS

- ☑ Measure PM₁₀ and PM_{2.5} simultaneously
- ☑ Add up to 30 different gaseous pollutants (CO, CO₂, NO₂, VOC, O₃, SO₂, H₂S and more)
- ☑ Active fan sampling ensures highest possible accuracy
- ☑ Monitor fits comfortably in the hand
- ☑ Automatic humidity compensation
- ☑ Can be field calibrated to a trusted reference source
- ☑ Long life lithium battery allows a full 24 hours in the field
- ☑ Download data direct to PC via USB
- ☑ Free PC software (Windows 7, 8, XP and above compatible)

APPLICATIONS

- ☑ Ambient (outdoor) air quality surveys
- ☑ Checking pollution “hotspots”
- ☑ Validating air quality models
- ☑ Indoor air quality testing
- ☑ Personal exposure monitoring
- ☑ Short term fixed monitoring

OVERVIEW

WHAT'S INCLUDED

SENSORS

ACCESSORIES

CASE STUDIES

DOWNLOADS

FAQS

Portable Particulate Monitor PM₁₀ / PM_{2.5}

Aeroqual is excited to introduce a truly handheld portable particulate monitor for accurate and simultaneous measurement of PM₁₀ and PM_{2.5} in ambient outdoor and indoor environments.

Compatible with Aeroqual's Series 200/300/500 air quality monitors, the portable particulate monitor will output particulate matter (PM) measurements for PM₁₀ and PM_{2.5} in real-time.

The monitor can also be used to measure gaseous pollutants such as carbon monoxide (CO), carbon dioxide (CO₂), nitrogen dioxide (NO₂), ozone (O₃), sulfur dioxide (SO₂), and hydrogen sulfide (H₂S). Simply swap the PM sensor head for the gas sensor head of your choice.

How does it work?

The PM sensor head uses a laser and optical sensor to measure light scattered from particles passing through the laser beam. The optical sensor transforms scattered light into electrical signals which are processed to provide mass measurements – in this case PM_{2.5} and PM₁₀.

Active sampling and humidity compensation

Like all Aeroqual sensor heads the PM sensor head has an in-built fan to ensure a stable and precise flow of sample air to the sensor. The sensor head also compensates for humidity by way of an on-board humidity sensor. In humid conditions light scattering sensors are likely to read high because moisture surrounds particles, causing them to appear 'bigger'. The humidity compensation feature reduces this effect on the measurement.

Display and K factor application

The PM sensor head is supplied factory-calibrated and ready to use. An electrical signal is passed from the sensor head to the Aeroqual Series 200/300/500 base unit which displays the measurements on the screen in milligrams per cubic metre (mg/m³). In the case of the Series 300 and 500 base units, a gain (or K factor) can be applied to the sensor output. This allows users to adjust the readings relative to a trusted source such as EPA-approved reference monitor.

Battery and datalogging

The Series 200/300/500 monitors come with a long-life Lithium battery. When using the PM sensor head the battery allows for 24 hours of remote operation between charges. Recharging takes just 3 hours. The monitor can be plugged into the mains and left to run indefinitely. Finally, in the Series 500 model, measurements can be stored on the device and downloaded later to a computer via the USB cable and bundled software.

Outdoor Air Quality Test Kits

The Series 500 is also featured in our new [Outdoor Air Quality Test Kit \(Starter\)](https://www.aeroqual.com/product/outdoor-portable-monitor-starter-kit). (<https://www.aeroqual.com/product/outdoor-portable-monitor-starter-kit>) and [Indoor Air Quality Test Kit \(Starter\)](https://www.aeroqual.com/product/indoor-portable-monitor-starter-kit). (<https://www.aeroqual.com/product/indoor-portable-monitor-starter-kit>), a convenient way to test multiple gases and particulates in the air around you.

VIDEO

CASE STUDY



Why did Colgate University choose Aeroqual?

RELATED PRODUCTS

https://www.aeroqual.com/product/portable-monitor-starter-kit	https://www.aeroqual.com/product/micro-air-quality-station	https://www.aeroqual.com/product/portable-monitor-starter-kit	https://www.aeroqual.com/product/sentry-pm10-monitor
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(<https://www.aeroqual.com/micro-air-quality-station>)

AQY 1 – Micro Air Quality Monitoring System

US\$ 2,850.00

Indoor Air Quality Test Kit (Starter)



(<https://www.aeroqual.com/sentry-pm10-monitor>)

Dust Sentry PM10

in f b s YouTube





<https://www.youtube.com/channel/UC4eyICTcnaiBipTjbAvlyWw>

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Customer Service and Support (<https://www.aerogual.com/support>)

Frequently Asked Questions (<https://www.aerogual.com/support/fags>)

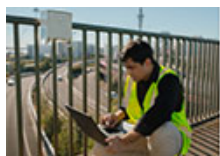
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AND AEROGUARD

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A LOW COST AIR QUALITY
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