

# PORTABLE PARTICULATE MONITOR

Measures both PM10 and PM2.5  
in real-time.

Active sampling & humidity compensation  
ensures high accuracy.



## 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 PM2.5 and PM10.

### Active sampling and humidity compensation

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, increasing accuracy in humid conditions.

### Display and K factor application

The PM sensor head is supplied factory-calibrated and ready to use. Measurements are displayed on the screen in milligrams per cubic metre (mg/m<sup>3</sup>). A gain (or K factor) can be applied to the sensor output, allowing users to adjust the readings relative to a trusted source such as EPA-approved reference monitor.

## Battery and datalogging

The PM sensor head can operate for 24 hours between charges. Recharging takes just 3 hours. The monitor can also be plugged into AC and left to run indefinitely. Measurements are stored on the device and downloaded later to a computer via the USB cable and bundled software.

## What's included?

- PM sensor head
- Monitor base
- LCD digital display
- Lithium battery and charger
- Built-in datalogger
- USB cable
- PC software

Sensor	Particle Sizes	Range	Resolution	Response Time	Calibrated Accuracy
LPC	PM <sub>2.5</sub> PM <sub>10</sub>	0.001-1.000 mg /m <sup>3</sup>	0.001 mg /m <sup>3</sup>	5 sec	<±(5 µg/m <sup>3</sup> + 15% of reading)