



Air pollution has been identified as the greatest environmental cause of morbidity and mortality in the world at present, and particulate matter (PM) is shown to have the greatest health impact of all measured pollutants.

Landrigan, P.J.; Fuller, R.; Acosta, N.J.; Adeyi, O.; Arnold, R.; Basu, N.; Baldé, A.B.; Bertollini, R.; Bose-O'Reilly, S.; Boufford, J.I.; et al. The Lancet Commission on pollution and health. Lancet 2017,

Introducing Urban Sensing's latest smart city product

A proven air quality monitoring solution for additional metrics in a smart city environment
Using a new generation of laser particle counters to provide real-time measurement of PM1.0, PM2.5 and PM10 Urban sensing sensors are easy to install alongside our people and vehicle counting systems utilising the same power supply unit through modular design. The extension lead of the modular unit allows the sensor to be placed at just the right height to monitor the particulate density at pedestrian level. Having a modular design allows for the particulate sensors to be serviced easily whilst keeping the other products operational and uninterrupted.

Where space and height is not an issue the sensor can be mounted on other USL products to provide a seamless installation dual use system.

Urban Sensing uses PMS5003 particle counters. These sensors count suspended particles in sizes of 0.3, 0.5, 1.0, 2.5, 5.0, and 10um. These particle counts are processed by the sensor using a complex algorithm to calculate the PM1.0, PM2.5, and PM10 mass concentration in ug/m3. PMS5003 sensors come factory calibrated and tested by the USL team to ISO9001 standard before deployment.

Dimensions	150 x 90 x 60mm
Weight	330g
Communication	WiFi, LoRaWAN option
Power	5v
Range of measurement	0.3~1.0; 1.0~2.5; 2.5~10 Micrometer (μ m)
Working Temperature Range	-10~+60 °C
Working Humidity Range	0~99%
Installation	Pole or Wall bracket included