

DUST MONITORING

The DM30 Dustsens particulate monitor is an automated air quality sensor for measuring PM10, PM2.5 and PM1. Designed for applications that require accuracy, reliability and simple operation.

MCERTS certified for PM10 and PM2.5

The Dustsens provides continuous monitoring of outdoor dust levels. Measurements are uploaded in real time to the Sonitus Cloud platform for automatic analysis, reporting and compliance checks.



HIGHLIGHTS



Simultaneous measurement of PM10, PM2.5 and PM1



Automated measurement, upload and analysis with reports straight to your inbox



Heated air inlet to control moisture in the air. User options to adjust power consumption



Online reporting through the Sonitus Cloud with email and text alerts. Check compliance with limits from anywhere at anytime



Mains, battery and solar power options with low power mode for long term monitoring



All real time data is automatically pushed to the Sonitus Cloud platform, hosted on secure servers. Export options using API or FTP are available for integration with other systems



Ready to deploy with minimum effort on site. Low maintenance and simple calibration



Rugged design with consistent performance in a range of weather conditions



SPECIFICATION

PARTICULATE MEASUREMENT

PARAMETERS	PM10, PM2.5 and PM1
METHOD	Optical particle counter
MEASUREMENT RANGE	up to 2000 µg/m ³
PARTICULATE RANGE	0.35 to 40 µm

LOGGING

MEASUREMENT PERIOD	1, 5, 10, 15 or 30 minutes Hourly and 24 hour averages online
DATA STORAGE	3 years on-board memory
PROCEDURE	Automatic measurement and logging

POWER REQUIREMENTS

MAINS POWER SUPPLY	110V - 240V AC
CONSUMPTION	24W with heater at full power
MAX. CURRENT	2A at 12V

COMMUNICATIONS

WI-FI	For user interface
4G MODEM & SIM	Supplied inside each monitor
USER INTERFACE	Accessed using a standard web browser

PHYSICAL

DIMENSIONS	430 x 410 x 185mm with 185mm inlet
WEIGHT	12kg
OPERATING TEMP.	-10 to 50°C
HUMIDITY RANGE	0 to 95 %RH

FEATURES AND OPTIONS

Heated inlet with power control

The heated inlet reduces moisture in the sampled airflow to give more consistent and accurate measurements. The heater power can be adjusted to suit the environmental conditions and to save power.

Add wind sensors

Capture all relevant environmental parameters with an ultrasonic wind sensor to measure wind speed and direction.

Add noise monitoring

The Dustsens is built on the same rugged technology as our sound level monitoring systems. Combine noise and dust into a single station to save costs, power and hassle.

Low downtime for calibration

The low-maintenance particulate sensor can be swapped out quickly with a pre-calibrated module. This significantly reduces the downtime on site.

