

DUST SENTRY

COMPACT REAL-TIME DUST MONITORING


Aeroqual's Dust Sentry provides cost-effective and real-time indicative measurement of particulate matter by TSP, PM10, PM2.5 or PM1 using a well proven near forward light scattering nephelometer. Datalogging, wireless Internet connectivity and alarm relay outputs are fitted as standard and meteorological sensors and wireless modems can be easily integrated. The low power and small footprint makes it possible to install anywhere even off-grid via solar power. The robust, lockable enclosure is rugged but light enough for one-person site installation. Applications include industrial and construction fugitive emissions, wintertime wood smoke alerts, automatic dust control systems, urban / roadside and remote site measurement.



APPLICATIONS

- PM monitoring networks
- Nuisance dust detection and alerts
- Industrial site compliance monitoring
- Construction, quarries and mining sites
- Waste, landfill and incineration sites
- Roadside / urban PM measurement
- Community exposure studies: schools, residential, hospitals, epidemiological
- Automatic dust control systems
- Smoke / biomass burn-off

SPECIFICATIONS

Measurement technology	Near forward light scattering nephelometry
Range	0-2000 $\mu\text{g}/\text{m}^3$
Cut points available	PM1, PM2.5, PM10, TSP
Inlet	Heated
Alarm	Relay, SMS, email
Datalogging	2GB SD card (>15 years data storage)
Reference filter	25mm GF filter
Software	Datalogging & alarm configuration software included
Outputs	RS232 & wireless IP Gateway
Mounting	Pole or wall mounting hardware included
Wireless communication options	Low power RF, Bluetooth, Iridium, GPRS TCP/IP enabled modem
Meteorological sensor options	Temperature & RH, Gill WindSonic, Vaisala WXT520
Environmental operating range	-10 °C to +55 °C; 10 to 95% RH (NC)
Power requirements	Mains (100 to 260VAC) or 12VDC (10W)
Enclosure	Lockable & weatherproof GRP cabinet IP65; 420 x 315 x 180mm (excluding solar shield armour & mounting brackets)
Weight	<12kg
Conformity	

Certification (applied for)

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