



Dust Sentry

Accurate and affordable real-time outdoor particulate monitoring

The Dust Sentry provides real time, continuous particle measurement of TSP, PM10, PM2.5 or PM1 with datalogging and alarm relay outputs. Numerous integrated options including SMS and/or email notifications, weather sensors, noise and mounting equipment make the Dust Sentry a flexible base system suitable for a wide range of applications.

Applications

- Roadside PM surveys
- Nuisance dust detection
- Industrial site compliance monitoring
- Construction / mining sites
- Community exposure studies
- Workplace monitoring
- Smoke / biomass burn-off



Features & Benefits

- Real time particle monitoring, Measures and reports data in 1 minute intervals
- Accurately measures TSP, PM10, PM2.5 or PM1
- On board data storage for up to 15 years of data
- Web-based and GSM data retrieval and alerts
- Gravimetric filter
- Option to integrate weather, wind, temp/RH sensors, and sirens
- Tough weatherproof enclosure with solar shielding for hot climates
- Quick installation and relocatable

Compared to reference-equivalent monitors like TEOMs and BAMs which lack sensitivity at short sampling periods, the Dust Sentry reports accurately at 1 minute intervals and has a much lower total cost of ownership (up to 5x less). In addition, the Dust Sentry is compact, re-locatable and can integrate wind and weather sensors for maximum utility.



Dust Sentry Specifications

Models	DS 10	DS 25	DS 1
Measurement Technology	Near forward light scattering nephelometry		
Range	0-2000 $\mu\text{g}/\text{m}^3$		
Accuracy	+/- (2 $\mu\text{g}/\text{m}^3$ + 5% of reading)		
Cut Points Available	PM 10	PM 2.5	PM 1.0
Sample Flowrate	2.0 LPM		
Inlet	Heated		
Alarm	Relay and SMS (optional)		
Datalogging	2GB SD card (>15 years data storage)		
Reference Filter	25mm GF filter		
Software	Datalogging and configuration software included		
Outputs	RS232 & cellular IP Gateway		
Mounting	Pole and wall mounting		
Wireless Communication Options	Low power RF modem		
Meteorological Sensor Options	Temperature & RH sensor, Gill WindSonic, Vaisala WXT520		
Environmental Operating Range	-10° C to +45° C; 10 to 95% RH (NC)		
Power Requirements	Mains (100 to 260VAC) or regulated 12VDC (10W)		
Enclosure	Lockable & weatherproof GRP cabinet IP65; 685 x 350 x 300mm (including solar shield armour & mounting brackets)		
Weight	<12kg		

Specifications are subject to change without notice.



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