

## **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

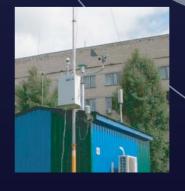




### Features & Benefits

- 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 μg/m³  |        |        |
| Accuracy                       | +/- (2 ug/m3 + 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  |        |        |
| Meterological 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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