

# AQM10

## Dust Sentry

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### Compact and Fast Response Dust Monitoring

Aeroqual's AQM10 Dust Sentry provides real time, simultaneous particle measurement of TSP, PM<sub>10</sub>, PM<sub>2.5</sub> and PM<sub>1</sub> with datalogging and alarm relay outputs. Numerous integrated options including wireless communications, SMS and/or email notifications, weather sensors, gas sensors and mounting equipment make the AQM10 a flexible system suitable for a wide range of applications. The low power requirement allows the use of solar power systems as needed. Packaged in a robust, lockable enclosure, it is rugged but light enough for one person site installation.

### Applications

- Roadside PM surveys
- Nuisance dust detection
- Industrial site compliance monitoring
- Construction / mining sites
- PM sensor networks
- Community exposure studies: schools, residential, hospitals, epidemiological
- Workplace monitoring
- Smoke / biomass burn-off



### Specifications

|                                                                                                                                                                                    |                                                        |                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Particle monitor<br>Mass: PM <sub>1</sub> PM <sub>2.5</sub> PM <sub>10</sub> TSP or Inhalable, Thoracic, Respiratory<br>Counts: PM <sub>1</sub> PM <sub>2.5</sub> PM <sub>10</sub> | Range<br>0-5000 µg/m <sup>3</sup><br>0-100000 counts/L | Resolution<br>0.01 µg/m <sup>3</sup><br>1 count                                               |
| Flow rate                                                                                                                                                                          |                                                        | 1000 cc/min                                                                                   |
| Alarm                                                                                                                                                                              |                                                        | Relay output (standard)<br>SMS, email, siren, strobe (optional)                               |
| Datalogging                                                                                                                                                                        |                                                        | 2 GB SD card (> 15 years data storage)                                                        |
| Reference filter                                                                                                                                                                   |                                                        | 25 mm GF filter                                                                               |
| Display                                                                                                                                                                            |                                                        | 4-line alphanumeric                                                                           |
| Software                                                                                                                                                                           |                                                        | Datalogging and alarm configuration software included                                         |
| Outputs                                                                                                                                                                            |                                                        | RS-232 (38400 baud)                                                                           |
| Averaging period                                                                                                                                                                   |                                                        | 1 to 60 minute                                                                                |
| Wireless communication options                                                                                                                                                     |                                                        | IP Cellular Gateway, GSM/GPRS Modem<br>RF Modem 10 km LOS                                     |
| Meteorological sensor options                                                                                                                                                      |                                                        | Temperature, Relative Humidity<br>Gill WindSonic / MetPak II, NovaLynx 200-WS, Vaisala WTX520 |
| Gas sensor options                                                                                                                                                                 |                                                        | Ozone, PID, CO <sub>2</sub> , Toxics                                                          |
| Environmental operating range                                                                                                                                                      |                                                        | -10°C to +55°C; 10 to 95% RH (NC)                                                             |
| Power requirements                                                                                                                                                                 |                                                        | Mains (100 to 260 VAC) or 12 VDC 24W                                                          |
| Enclosure                                                                                                                                                                          |                                                        | GRP cabinet 500 x 405 x 205 mm<br>(additional solar shield, mounting brackets)                |
| Weight                                                                                                                                                                             |                                                        | <10 kg                                                                                        |
| Conformity                                                                                                                                                                         |                                                        | FC CE                                                                                         |