AQM10
Dust Sentry

Compact and Fast Response Dust Monitoring

Aeroqual's AQM10 Dust Sentry provides real time, simultaneous particle measurement of TSP, PM10, PM2.5 and PM1 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

	Range	Resolution
Particle monitor **Mass:** PM$_1$ PM$_{2.5}$ PM$_{10}$ TSP or Inhalable, Thoracic, Respiratory **Counts:** PM$_1$ PM$_{2.5}$ PM$_{10}$	0-5000 µg/m^3 0-100000 counts/L	0.01 µg/m^3 1 count
Flow rate		1000 cc/min
Alarm		Relay output (standard) 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 RF Modem 10 km LOS
Meteorological sensor options		Temperature, Relative Humidity Gill WindSonic / MetPak II, NovaLynx 200-WS, Vaisala WTX520
Gas sensor options		Ozone, PID, CO2, 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 (additional solar shield, mounting brackets)
Weight		<10 kg
Conformity		