

AQM Series

Air Quality Monitor (multi-gas)



External enclosure

Optional enclosure suitable for outdoor applications can also be mounted on a pole or post

The AQM Series is a multi-gas monitor capable of delivering high quality data for up to six gases in ambient air environments. The system can be integrated with other components including communications, solar power, particulate monitors, anemometers and weather stations. Sensors are calibrated for specific environmental or industrial air quality applications. Low power and spatial requirements allow the unit to be portable or deployed unobtrusively in urban areas or in remote sites.

Features

- GSS sensor technology
- Multi-gas monitoring (up to six gases)
- High quality data in real-time
- Active sampling system
- RS232 data polling or pushing
- PC software included
- Automatic baseline calibration
- Low power and spatial requirements
- Modular engineered design
- Low maintenance system
- PLC with datalogging option
- Temperature and humidity option
- Fixed or portable options
- External enclosure options

Applications

- Urban air quality monitoring (O₃, NO₂, CO and VOC)
- Industrial air quality monitoring (H₂S, SO₂, CO, CO₂, NH₃, VOC and halogenated hydrocarbons)
- Tunnel and roadside pollution monitoring
- Point source and perimeter monitoring
- Weather stations
- Landfills, wastewater and petrochemical plants
- Concentrated animal feeding operations

General Specifications

Power		24 VDC, 1A
Sensors (Up to 6 sensors can be configured)	Ozone Nitrogen dioxide Carbon monoxide Sulphur dioxide Hydrogen sulphide Ammonia VOC Halogenated hydrocarbons Carbon dioxide (NDIR) Other gases and ranges subject to availability	Gas sensitive semi-conductor (GSS) 0 - 0.150 ppm; 0 - 0.5 ppm 0 - 0.5 ppm; 0 - 2 ppm 0 - 50 ppm 0 - 10 ppm 0 - 10 ppm 0 - 50 ppm; 0 - 500 ppm 0 - 50 ppm; 0 - 500 ppm 0 - 500 ppm 0 - 2000 ppm
Zero air scrubber		Internal unit Activated carbon and alumina adsorbent
Communications	RS232 or RS485	Data polling or pushing
Zero calibration		Programmable time interval or external activation
Pump		Brushless DC rotary
Sample gas line materials		PFA teflon, PTFE, kynar
Connections	Air inlet Air exhaust Power Communications	3 mm kynar barb 3 mm kynar barb 4-way M12 female DB 9 female
Enclosure	Rating Materials Size	IP66; NEMA 4 Polycarbonate and stainless steel 361 x 254 x 165 mm
Weight		< 10 Kg
Approvals	Part 15 of FCC Rules EN 61000-6-3: 2001 EN 61000-6-1: 2001	  