



AQM 60

Environmental Air Quality Monitor



AQM 60 system installed in an external/outdoor enclosure and configured with multi-gas sensor module, zero-air scrubber, Programmable Logic Controller (PLC) and power supply module



AQM 60 multi-gas sensor module with cover removed to show sampling pump, microcontroller module, four gas sensor modules plus temperature and humidity

AQM 60 is an integrated multi-gas monitor capable of delivering high quality data for up to six gases in ambient air environments. The modular design lends itself to customised configuration and allows simplified maintenance. Other components including communications, anemometers, solar power units, particulate monitors and weather sensors can be integrated with the AQM 60. Sensors are specifically calibrated for outdoor environmental or indoor 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

- Analytic GSS Technology ®
- Multi-gas monitoring (up to six gases)
- High quality data in real-time
- Active sampling system
- RS 232 / 485 data polling or pushing
- PC data logging software
- Automatic baseline calibration
- Low power and spatial requirements
- Modular engineered design
- Low maintenance system
- PLC and data logger options
- Outdoor enclosure options
- Temperature and humidity option
- Wind speed and direction option
- GSM or RF modem options

Applications

- Urban air quality monitoring
- Industrial air quality monitoring
- Tunnel and roadside monitoring
- Indoor air quality monitoring
- Trend analysis and hotspot screening
- Perimeter and point source monitoring
- Landfills, wastewater and petrochemical plants
- Weather stations

General Specifications

Gas sensors Contact Aeroqual for other calibrations	Ozone (Ultra-low)	0 - 150 ppb	1 ppb
	Ozone (Low)	0 - 500 ppb	1 ppb
	Nitrogen dioxide	0 - 200 ppb	1 ppb
	Carbon monoxide	0 - 100 ppm	0.1 ppm
	Sulphur dioxide	0 - 10 ppm	0.01 ppm
	VOC (Non-Methane Hydrocarbon)	0 - 25 ppm	0.1 ppm
	VOC (Toluene)	0 - 500 ppm	1 ppm
	Hydrogen sulphide	0 - 10 ppm	0.01 ppm
	Ammonia	0 - 100 ppm	1 ppm
	Halogenated hydrocarbons	0 - 500 ppm	1 ppm
	Carbon dioxide (NDIR)	0 - 2000 ppm	10 ppm
Zero air scrubber	Triple media	Hopcalite, activated carbon and alumina	
Zero calibration		Programmable or external activation	
Pump		Brushless rotary vane	
Sample gas line materials		PFA Teflon, PTFE, Kynar	
Connections	Air inlet / exhaust Power Communications	3 mm Kynar barb 4-way M12 female DB 9 female	
Communications	RS232 or RS485 (analog 0-5 V outputs optional)	Data polling or pushing	
Data sampling rate		2 minutes	
Power requirements		24VDC / 1A	
Enclosure (internal)	Fibre Reinforced Polycarbonate (FRP)	361 x 254 x 165 mm	
Weight	AQM 60 Sensor Enclosure	< 10 Kg	
Approvals	Part 15 of FCC Rules EN 61000-6-3: 2001 EN 61000-6-1: 2001	  	
Temperature & humidity option	Temperature sensor Relative humidity sensor	-20°C - 100°C 0 - 100% RH	0.01°C 1%
Data logger module option	Removable flashcard Flashcard reader	1.0 GB USB	
Display module option	Vacuum Florescent Display (VFD)	4-line / 20-column	
Power module option	Switch mode power input	100 - 260 VAC	
Sonic anemometer option	Wind speed Wind direction	0 - 60 m/s 0 - 359°	0.01 m/s 1°
Outdoor enclosure option	Fibre Reinforced Polycarbonate (FRP)	515 x 415 x 230 mm + mountings IP66 (NEMA type 4)	
Communication module options	GSM modem RF modem Wireless LAN	Dualband 900/1800 MHz (excludes SIM) 433, 900, 1800, 2400 MHz 802.11	
Other options	Enclosure heating / cooling modules Programmable Logic Controller Particulate monitor integration Solar power system	Contact Aeroqual for specifications	

LENNTECH

info@lennotech.com Tel. +31-152-610-900
 www.lennotech.com Fax. +31-152-616-289