

AIR QUALITY MONITORING SYSTEM

IDEAL FOR PM_{2.5}, PM₁₀ AND GASEOUS POLLUTANTS WITH SIMULTANEOUS DISPLAY



AQ - 200 AIR QUALITY STATION

The Air Quality station deliver precise measurement data in real-time for a wide range of air pollutants in a discreet and compact package.

Measurable parameters include: Ozone (O₃); Nitrogen dioxide (NO₂); Nitrogen oxides (NO_x); Carbon monoxide (CO); Carbon dioxide (CO₂); Sulphur dioxide (SO₂); Volatile organic compounds (VOC); and particulate matter by mass (PM₁₀ and PM_{2.5}) or size (0.3 to 10 µm).

The AQ - 200, Air Quality Station meets the global trend towards real-time measurement of air quality in the micro environment.

This is driven by the need to answer important questions in localized areas of human habitation using new intelligent measurement technology linked by inexpensive network communication systems.

SPECIAL FEATURES

- Multiple gas measurements
- Real-time data acquisition
- PC software included, compact and low weight
- Remote site operation
- Multi -point factory calibration
- Zero and Span calibration user facility
- Temperature and humidity sensors
- Particle monitoring PM_{2.5}, PM₁₀, TSP*
- Wind speed and direction sensors*

APPLICATIONS

- Environmental traffic management
- Roadside and tunnel monitoring
- Urban air quality measurement : residential, schools, hospital
- Perimeter (fence line) and point source emissions monitoring
- Low cost air quality networks to support reference AAQM stations
- Long term air quality trend analysis

SPECIFICATIONS

Detectable gases / parameters	: PM2.5 and PM10
Electronics / processor	: Micro controller
Power supply	: 230 V AC
Display	: Graphics LCD
Alarm	: Adjustable LOW and HIGH
Output	: Relays, 4 - 20 mA analog, RS 485, MODBUS
Technology	: EC & IR for gases, LASER for PM
Resolution	: 0.01 µg/m ³
Accuracy	: ± 2 %
Response time	: Sensor dependent
Operating temperature	: 0 - 55 °C
Sampling	: Direct plug-in
Housing	: Sheet steel (Standard Enclosure : MS Power coated Aluminium)
Weight	: 40 - 100 Kgs (Subject to configuration)
Gas treatment module	: Sampling Pump 220 V AC (Optional)
Temperature	: - 20 °C to + 100 °C
Humidity	: 0 - 100 % RH

GASES AND RANGES

Sr.No	Parameters	Sensors	Ranges	
1.	H ₂ S	Electrochemical	0 - 25	PPM
2.	NO ₂	Electrochemical	0 - 20	PPM
3.	CO	Electrochemical	0 - 50	PPM
4.	CO ₂	NDIR	0 - 2000	PPM
5.	NO _x	Electrochemical	0 - 20	PPM
6.	O ₃	Electrochemical	0 - 02	PPM
7.	SO ₂	Electrochemical	0 - 20	PPM
8.	NMHC	PID	0 - 150	PPM
9.	PM _{2.5} , PM ₁₀		0 - 10,000	µg/m ³

Note : Images shown are indicative only. Specifications and Features will vary with application. There may be changes overtime due to continuous development process.
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