Air Quality Station

Field / Panel / Station Model : AQ - 200

Protects Personnel, Plants & Assets

IDEAL FOR PM 2.5, PM 10, & GASEOUS POLLUTANTS FOR SIMULTANEOUS DISPLAY

TECHNOLOGY

The Air Quality stations deliver precise measurement data in real-time for a wide range of air pollutants in a discreet and compact package. Measureable parameters include: ozone (O_3); nitrogen dioxide (NO_2); nitrogen oxides (NOx): carbon monoxide (CO); carbon dioxide (CO_2); sulphur dioxide (SO_2); volatile organic compounds (VOC); and particulate matter by mass (PM_{10} and $PM_{2.5}$) or size distribution (0.3 to 10 µm, 8-channels).

Sensors can be integrated that measure temperature, humidity, wind speed, wind direction, environmental noise, solar radiation and other meteorological parameters. Data is stored on an SD card and remotely accessible in real-time via GSM modem, low power radio, Ethernet or other communications.

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.

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 $PM_{2.5}$, PM_{10}, TSP*
- Wind speed and direction sensors*

APPLICATIONS

- Environmental traffic management
- Roadside and tunnel monitoring
- Urban air quality measurement : residental, 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

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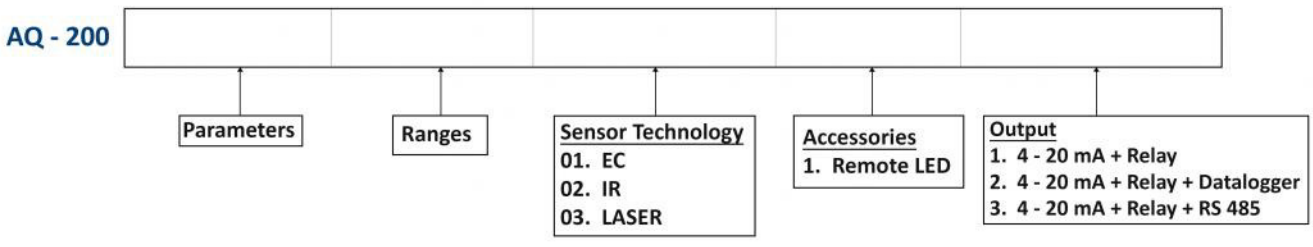
SPECIFICATIONS

Detectable gases / parameters	PM10 and PM2.5
Electronics / processor	Micro controller
Power supply	230 V AC
Display	Graphics LCD
Alarm	Adjustable LO and HI
Output	Relays, 4 - 20 mA analog, RS 485, Datalogging
Technology	EC & IR for gases, LASER for PM (Other : Noise, Particulate, Metrological)
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)
Accessories	Datalogging, RS 485
Optional accessories	Remote LED display - max. size 4"height
Weight	40 - 100 Kgs (Subject to configuration)
Gas treatment module	Sampling Pump 220 V AC
Accuracy	8 % NIOSH 0600
Precision	3 µg/m^3
Sharp cut points	PM1 / PM2.5 / PM10
Temperature & Humidity Module (Optional)	
Temperature	- 20 °C to + 100 °C
Humidity	0 - 100 % RH
Accuracy @25 °C	± 0.3 °C / ± 2% RH
Temp. Resolution	0.01 °C
Resolution	0.1 % RH

GASES & RANGES

H2S (EC)	: 0 - 25 PPM (0 - 15,000 µg/m^3)	NO (EC)	: 0 - 20 PPM (0 - 15,000 µg/m^3)
NO2(EC)	: 0 - 20 PPM (0 - 25,000 µg/m^3)	O3 (EC)	: 0 - 02 PPM (0 - 3,000 µg/m^3)
CO (EC)	: 0 - 50 PPM (0 - 15,000 µg/m^3)	SO2 (EC)	: 0 - 20 PPM (0 - 30,000 µg/m^3)
CO2 (NDIR)	: 0 - 2,000 PPM, OC's (PID)	NMHC (PID)	: 0 - 150 PPM
	: 0 - 1 PPM	PM2.5 & PM10	: 0 - 10,000 µg/m^3

ORDERING INFORMATION



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

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