

AIR QUALITY MONITORING SYSTEM

**INEXPENSIVE AND COMPACT AIR QUALITY MONITORING STATION
IDEAL FOR PM_{2.5}, PM₁₀, AND GASEOUS POLLUTANTS FOR SIMULTANEOUS DISPLAY**



AQ - 150

AIR QUALITY STATION

Air Quality stations deliver precise measurement data in real-time for a wide range of air pollutants in a discreet & compact package. Measurable parameters includes: Ozone(O₃), Nitrogen dioxide(NO₂), Nitrogen oxide (Nox), 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 distribution (0.3 to 10 µm, 8 channels).

AQ - 150 affords high performance within a flexible and cost effective package. Sensors can be integrated that measure temperature, humidity, wind speed, wind direction, environmental noise, solar radiation and other meteorological parameters. Data is stored on internal memory and is remotely accessible in real-time via GSM modem, low power radio, Ethernet or other communications.

Air Quality Station AQ - 150 meets the global trend towards real-time measurement of air quality in the micro environment. This is driven by need to answer important questions in localized areas of human habitation using newer, smaller, lower cost, intelligent measurement technology linked by inexpensive network communication systems.

SPECIAL FEATURES

- Multiple gas measurements
- Real-time data acquisition
- Remote site operation
- Pole or wall installation
- Compact and low weight
- Factory calibrated
- Temperature and humidity sensors
- Particle monitoring PM_{2.5}, PM₁₀ TSP*
- Wind speed and direction sensors*

APPLICATIONS

- Indoor Air Quality Monitoring
- Roadside and tunnel monitoring
- Urban air quality measurement
- Perimeter (fence line) and point source emissions monitoring
- Low cost air quality networks to support reference AAQM stations
- Long term air quality trend analysis
- Local community exposure: residential, schools, hospitals, etc

SPECIFICATIONS

Type	: Portable
Detectable gases / parameters	: PM ₁ , PM _{2.5} , PM ₁₀
Electronics / processor	: Micro controller
Power supply	: 230 V AC
Display	: Graphic LCD
Alarm	: Adjustable LOW and HIGH
Output	: Relays, 4 - 20 mA analog, RS 485, datalogging
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 / input	: Direct plug-in
Housing / case	: Sheet steel
Optional accessories	: Remote LED display - max. size 4" height
Lowest detection	: 0.01 µg/m ³
Accuracy	: 8% NIOSH 0600
Precision	: 3 µg/m ³
Sharp cut points	: PM ₁ / PM _{2.5} / PM ₁₀
Power	: 5.2 W
Sampling rate	: 2 - 255 min
Self diagnostic	: Yes

GASES AND RANGES

1. CO₂ : 0 - 2000 PPM (0 - 15000 µg/m³)
2. CO : 0 - 50 PPM (0 - 15000 µg/m³)
3. O₃ : 0 - 20 PPM (0 - 3000 µg/m³)
4. PM_{2.5} & PM₁₀ : 0 - 1000 µg/m³
5. VOC : 0 - 150 PPM

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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