

Agasthya 2013 Series Portable Ambient Air Quality Monitoring Analyzer Model BI 9100



Gas Analysis in ppb & $\mu\text{g}/\text{m}^3$

Bhoomi advantages:

- Customizable product as per client site requirements
- Provide solutions for Analyzer suitable for installation in Hazardous area
- Spares and accessories availability guaranteed for years at reasonable price
- A truly trouble - free sales and customer service experience

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BI 9100 AQMS Air Quality Station delivers accurate intermittent measurement data in real time for a wide range of air quality criteria in a compact and modular package. Measurable parameters include Ozone (O₃), Nitrogen Dioxide (NO₂), Nitric Oxide (NO), Carbon Monoxide (CO), Carbon Dioxide (CO₂), Sulphur Dioxide (SO₂), Hydrogen Sulphide (H₂S) and other toxic gases.

Electrochemical and IR Sensor technology deliver high performance within a flexible platform.

The modular design of BI 9100 AQMS also facilitates cost-effective service. Data is stored in memory and remotely accessible in real time via RS 485 & supports MODBUS protocol.

The BI 9100 AQMS Air Quality Station meets the global trend for real time measurement of air quality in the micro-environment.

Features:

- 5.7 Inch Touch Screen Display
- 32 Bit powerful ARM processor
- Remote site operation
- Negligible zero and span calibration slope drift
- PC software included
- Zero and Span calibration of gases at site
- Built-in zero air scrubber
- Excellent linearity and sensitivity
- Real time data acquisition
- MODBUS communication
- Multiple gas measurements
- Multi-point factory calibration
- Active sampling via brushless pumps
- Measurement up to 6 parameters under one roof
- Lower capital cost for affordable profiling and assessments

Applications

- Park and forest monitoring
- Indoor air quality monitoring
- Industrial perimeter air quality monitoring
- Local community exposure: residential, schools, hospitals
- Construction site monitoring
- Urban air quality monitoring
- Near road air quality monitoring
- Ecological Mobility Management
- Long term air quality trend analysis
- Environmental Impact Assessments
- Low cost air quality networks to support reference AAQM stations

Specification

Parameters	Range	Resolution	Accuracy
GAS MEASUREMENT - ELECTROCHEMICAL			
Oxygen	0 - 25%	0.1%	<±2% of FS
Carbon Monoxide	0 - 50 ppm	10 ppb	<±2% of FS
Nitrogen Oxide	0 - 5000 ppb	5 ppb	<±2% of FS
Nitrogen Dioxide	0 - 5000 ppb	5 ppb	<±2% of FS
Sulphur Dioxide	0 - 5000 ppb	3 ppb	<±2% of FS
Hydrogen Sulphide	0 - 10000 ppb	4 ppb	<±2% of FS
Ozone	0 - 10000 ppb	3 ppb	<±2% of FS
Ammonia	0 - 25 ppm	1 ppm	<±2% of FS
Chlorine	0 - 10000 ppb	50 ppb	<±2% of FS
GAS MEASUREMENT - INFRARED			
Carbon Dioxide	0 - 2000 ppm	100 ppm	<±3% of FS
Methane	0 - 2000 ppm	100 ppm	<±3% of FS
GAS MEASUREMENT TECHNOLOGY - PID			
TVOC	0 - 1000 ppm	1 ppm	<±1%
TVOC	0 - 10000 ppm	1 ppm	<±1%
PARTICULATE MATTER MEASUREMENT - LIGHT SCATTERING			
PM2.5	0 - 999 µg/m ³	0.3 µm	±10% and ±10µg/m ³
PM10	0 - 1999 µg/m ³	0.3 µm	±10% and ±10µg/m ³

Systems Specifications

- Operating Conditions : 0 to 50°C Ambient Temperature
- Power Requirements : 12 V/24V DC Adaptor
- Computer Interface : RS 232, RS 485, supports MODBUS protocol
- Dimensions : D 110 mm X W 250 mm X L 300 mm
- Relative Humidity Range : 15 to 85%
- Pressure Range : Atmospheric ± 10%

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