BHOOMI®

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

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

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.

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Key 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

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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/m3
PM10	0 - 1999 µg/m^3	0.3 µm	±10% and ±10µg/m3

Systems Specifications

- Operating Conditions : 0 to 50oC 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%

Process Management Pvt. Ltd.
(Sister Concern Company Bhoomi Analyzers)

Head Office :
Unit no.812-815, 8th Floor,
The Gateway, GMLR ,
Mulund (W), Mumbai - 400080.

Manufacturing Unit :
201, 207, 208, G Wing, Udyog Bhavan: 2,
Plot No.: K-3, Additional Ambernath MIDC,
Ambernath-East-421506, Dist.: Thane, Maharashtra.

Phone : + 91-22-25916858, 25916916 Cell : +91 8652065039
Email : sales@bhoomiltd.com, bhoomianalyzers@gmail.com

Website : www.bhoomiltd.com

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