

Agasthya Series BI 9100 Portable Ambient Air Quality Monitoring System



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 AQM also facilitates cost-effective service. Data is stored on in memory and remotely accessible in real time via RS 232, interface modem, Ethernet or Mod Bus communications.

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
- GSM / MOD BUS / Ethernet 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

Specifications

Parameters	Range	Resolution	Accuracy
GAS MEASUREMENT - ELECTROCHEMICAL			
Oxygen	0 - 25%	0.1%	< ±1% of reading
Carbon Monoxide	0 - 100 ppm	0.01 ppm	< ±1% of reading
Nitrogen Oxide	0 - 2 ppm	0.005 ppm	< ±1% of reading
Nitrogen Dioxide	0 - 2 ppm	0.005 ppm	< ±1% of reading
Sulphur Dioxide	0 - 2 ppm	0.003 ppm	< ±1% of reading
Hydrogen Sulphide	0 - 10 ppm	0.004 ppm	< ±1% of reading
Ozone	0 - 1 ppm	0.03 ppm	< ±1% of reading
Ammonia	0 - 25 ppm	1 ppm	< ±1% of reading
Chlorine	0 - 10 ppm	0.05 ppm	< ±1% of reading
GAS MEASUREMENT - INFRARED			
Carbon Dioxide	0 - 2000 ppm	1 ppm	< ±3% of reading
Methane	0 - 2000 ppm	1 ppm	< ±3% of reading

Systems Specifications

- Operating Conditions : 0 to 50° C Ambient Temperature
- Power Requirements : 110 / 230 V AC Adaptor
- Computer Interface : RS 232 & MODBUS PROTOCOL
- Dimensions : D 110 mm X W 250 mm X L 300 mm
- Relative Humidity Range : 15 to 85%
- Pressure Range : Atmospheric \pm 10%

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

Bhoomi Advantages

- Ensured after sales & service support
- Emission monitoring according to local regulations
- Combination of technologies and integration under one roof
- Low cost of ownership, maintenance and installation
- Spares and accessories availability guaranteed for years
- Single sample inlet for sample gases with air driven eductor or pump option