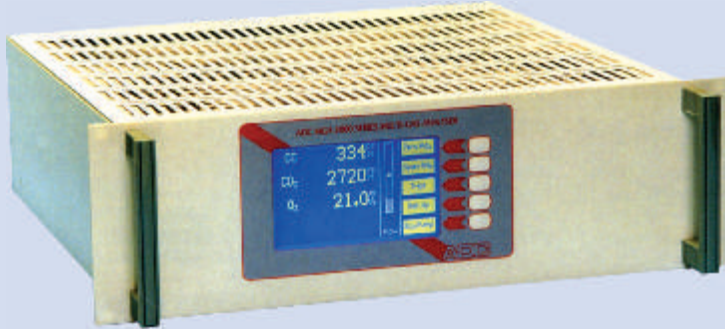


Agasthya Series BI 7000 Multi-Gas Analyzer

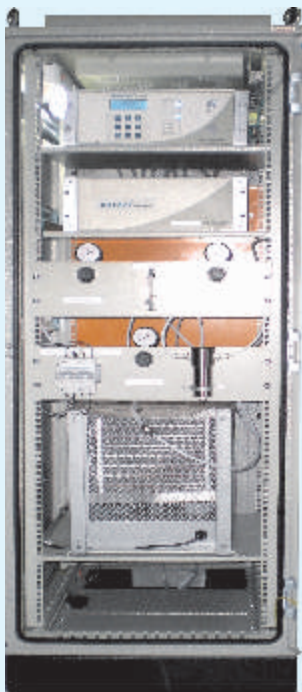


The Agasthya Series BI 7000 Multi-Gas Analyzer has been upgraded to meet the needs of organizations requiring cost effective and reliable single or multiple gas analyzer solutions. The four technologies employed are all tried and tested to ensure the user experiences maximum reliability and accuracy.

A one year, return to base warranty is provided with an option of on-site cover if required. A choice of service agreements is available offering users fixed price, time and materials or customized arrangements to suit requirements.

Up to eight gases can be analyzed at anytime, with up to 4 ranges for each gas, requiring single gas analysis, but would like the option to upgrade at a later date, the Agasthya Series BI 7000 is an ideal solution to protect initial investment.

Designed for the use in hostile or friendly environments the Agasthya Series BI 7000 maintains high levels of gas selectivity wherever installed. All packed into a robust, attractive, compact 3U-rack mount enclosure to utilize minimal space. An optional bench case is available for non-rack mount installations.



- The best price performance on the market - designed with user requirements foremost in mind.
 - Tried and tested technology with proven reliability - 1 year warranty
 - Up to eight gases, simultaneously analysed -upgrades available to protect investments
 - Wide range of gas selectivity
 - Compact 3U or GU-rack mount wall design with menu-driven, easy to use front panel controls
 - Auto-calibration as option
-
- Up to 4 ranges per gas with auto range
 - Multichannel accessory for sequencing up to 8 channels
 - Wall mount version
 - Transportable version
 - Auto-calibration as standard

| Criteria | Gas Correlation Filter Technology (GC) | Single Beam Technology (SB) | Electrochemical Cell Technology (PM) | Paramagnetic Cell Technology (ECC) | Other Technology | |
|----------------------------|--|---|---|---|------------------------------------|-----------------------|
| Gases Measured | C ₂ H ₂ , CO, CO ₂ , HCl, CH ₄ , N ₂ O, NO, NO ₂ | C ₂ H ₂ , CO, CO ₂ , CH ₄ , N ₂ O, NO, NO ₂ , SO ₂ | O ₂ , CO, NO, NO ₂ , SO ₂ , HCl, H ₂ S, HF, NH ₃ | O ₂ | Zirconia O ₂ technology | |
| Measurement Technique | Non dispersive infrared absorption with solid-state detector | Non dispersive infrared absorption with solid-state detector | Electrochemical Cell | Paramagnetic Cell | | |
| Measurement Range | From 100ppm to 100% | From 1000ppm to 100% | From 100ppm to 100% | Gases up to 100% | | |
| Resolution | Display: 0.1% fsd Output: 0.1% | Display: 0.1% fsd Output: 0.5% fsd | Display: 0.1% fsd Output: 0.025% fsd | Display: 0.1% fsd Output: 0.025% fsd | | Please Consult BHOOMI |
| Detection Limit | 1% of lowest range | 1% of lowest range | 1% of range | 0.05% | | |
| Intrinsic Accuracy | 1.0% of reading | 1.0% | 0.1% | 0.1% O ₂ | | |
| Noise | 0.5% fsd | 0.5% fsd | 0.5% | 0.5% O ₂ | | |
| Zero Stability | 1 % over a week (no autocal) | 2% over a week (no autocal) | Absolute Zero | Absolute Zero | | |
| Span Stability | 1% over a week Autozero every 4hrs | 1% over a week | 0.5% over 12 months | 0.1% over a week at constant STP | | Thermal Conductivity |
| Temperature Effect on Zero | +0.1% fsd per °C | +0.25% fsd per °C | +0.1% fsd per °C | +0.1% fsd per °C | | Please Consult BHOOMI |
| Temperature Effect on Span | +0.2% fsd per °C | +0.25% fsd per °C | +0.1% fsd per °C | +0.1% fsd per °C | | |
| Cell Response T90 | Typically 4 seconds dependant upon cell | Typically 4 seconds dependant upon cell size | Typically 4 seconds dependant upon cell size | Typically 4 seconds dependant upon cell | | |

| Criteria | Typical Analyzer |
|----------------------|--|
| Flow Rate | Typically 0.1 to 1 litre per minute |
| Flow Meter | 0.2 to 2 litre per minute |
| Sample Pump | 0.4 to 1 litre per minute |
| Gas Connections | M6 Compression fitting rear panel entries |
| Installation | 19" Rack mount - 3U or 6U High |
| Operating Conditions | 0-40 °C Ambient Temperature. 0-96 rh Relative humidity |
| Gas Conditions | 0-50 °C Non Condensing at Analyzer entry |
| Power Requirements | Nominal 90-240V AC Frequency Independent 120VA Maximum |
| Dimensions | H 133 mm X W 483 mm X D 500 mm -19" rack |
| Weight | H 1500 mm X W 600 mm X D 800 mm - Industrial Cabinet From 400 kg to 800 kg dependent upon configuration |

System Components

Non heated sampling probe

- Particulate filter size : 20 micrometer
- Probe diameter : 50 mm
- Probe length : 150 mm to 2000 mm
- Probe material : SS, Alumina, SiC
- Mounting : Flange type
- Max temperature : 600 °C (above 600 °C contact Bhoomi)

Heated Sampling Probe

- Operating temperature : Max. 200 °C
- Max. working pressure : 6 bar
- Voltage : 115/230 V, 50 /60 Hz
- Heating : Self regulating + 180 °C
- Ambient temperature : -20 to +80 °C
- For dust concentration : Upto 2 g/m³

Non heated Sample Gas Line

- Material : Teflon
- Dimension : 1/4" OD

Heated Sample Gas Line

- Process Tube : PTFE (Teflon)
- Process Tube Size : 1/4" OD
- Heating Element : Constant watt type, self limiting
- Thermal Insulation : Fiberglass wool
- Outer Jacket : Corrugated SS Conduit Braided Sleeve in SS
- Operating Voltage : 230 V AC
- Watt Density : Up to 200 W/m
- Length : To be specified by client
- Max. Operating Temperature : 200 °C
- Temperature Sensor : In built RTD
- Process Connection : Flanged Type
- Power/Control Connection : 2 meter of lead cable (3 wire) for both power and control

* We reserve the right to amend the specifications.

CCS7 sample conditioning unit

a) Microcontroller/PLC based Smart unit

- Aspirator/Pump for sampling flue gas
- Pre and post cooler fine filters to remove drain, dust and mist in sample gas
- Auto drain and auto purging (blow back) facilities
- 2 way and 3 way solenoid valves for switching, sampling, purging, draining and calibration
- Flowmeter to regulate and monitor the flow of sample gas
- Drain pump for continuous removal of condensate
- HCl Scrubber
- Hooter for Alarm Indication

b) Cooler

- Sample gas flow range : 1 - 3 LPM (2.1- 6.4 SCFM)
- Inlet condition at rated flow : 150 °C @ 12% H₂O, 2.5 LPM
- Outlet dew point at rated flow : 4 °C
- Maximum inlet temperature : 200 °C for SS, Durinert, Glass; 138 °C for Kynar
- Ambient temperature range : 0.6 - 40 °C
- Power supply : 90 - 240 VAC, 50/60 Hz 100W

c) NO_x Converter

- High NO₂ conversion capability
- Enclosure : 19" Housing
- Working temperature : 400 °C
- Sample gas pressure : up to 1.5 bar
- Warm-up time : 30 min
- Sample gas flow : up to 120 l/h
- Sample gas temperature : 5 to 80 °C
- Ambient temperature : 5 to 50 °C

d) Cabinet

- Industrial Cabinet
- Meets IP 54 standard
- Inbuilt air conditioning system
- Automatic cabinet illumination when door open
- Earthing bar assembly
- 180 degree door opening
- Standard Dimension : 800mm W x 600mm D x 1500mm L

BHOOMITM ANALYZERS

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