BHOOMI™

An ISO 9001:2008 Certified Company

# BIO-MASS GAS ANALYZER MODEL 7210

The Agasthya series BI 7210 Bio-Mass Gas Analyzer System has been designed considering the flexibility required in the environments that characterize syn gas and bio-mass applications.

The analyzer uses high-stability infrared sensors for the simultaneous measurement of $CO_2$, CO and $CH_4$ . In addition, the analyzer can also be supplied with a non-consumable, long-life thermal conductivity cell for $H_2$ that compensates for the interference effects of $CO_2$, CO and $CH_4$. This ensures that $H_2$ will always read correctly regardless of the background gas composition.

Paramagnetic sensor can be used for $O_2$ analysis as an option. All sensors are temperature-compensated for maximum analytical stability. Auto calibration functionality allows easy calibration without user intervention.


## Features

- 32-Bit Contex-M3 ARM Processor
- 5.7" QVGA TFT Touch Screen Display
- Cabinet purge system available
- Touch-screen display for gas readings
- Built-in sample pump or pressure regulator
- Isolated 4-20 mA analog output for each gas
- Automatic moisture removal system included
- Hi / Low gas, low flow and other alarms available
- Tried and tested technology with proven reliability
- RS485, MODBUS & Ethernet as option
- High ranges on each channel available (up to 100%)
- $H_2$ reading is compensated for the interference effects of the other gases measured
- PTFE sample lines & sample components (where prudent)

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# BHOOMI ANALYZERS

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# MODEL 7210

## Bhoomi Advantages

- Low cost of ownership, maintenance and installation
- Ensured after sales & service support
- Spares and accessories availability guaranteed
- Combination of technologies and integration under one roof

## Specifications

- Method of Detection : NDIR infrared sensor for CO, $CO_2$ & $CH_4$
  Electrochemical sensor for $O_2$ (Paramagnetic sensor as option)
  Thermal conductivity cell for $H_2$
- Ranges Available :

| | | | |
|---|---|---|---|
| $O_2$ | 0-25.0%, | 0-50.0%, | 0-100.0% |
| $H_2$ | 0-5.0%, | 0-50.0%, | 0-100.0% |
| CO | 0-10.0%, | 0-50.0%, | 0-100.0% |
| $CO_2$ | 0-10.0%, | 0-50.0%, | 0-100.0% |
| $CH_4$ | 0-50.0%, | 0-100.0% | |

- Resolution : 0.1% for all gases
- Accuracy & Repeatability : ± 1.5% of reading for all gases
- Drift : Less than 2% of full scale per month
- Response Time (T-90) : 20-30 seconds to 90% step change
- Ambient Temperature Range : 4 to 50° C
- Power : 80 to 230 VAC 50 Hz
- Output Options : Isolated 4-20 mA standard
  RS485, MODBUS & Ethernet as option
- Relay Output : 2 Nos. of potential free contacts

BHOOMI® ANALYZERS

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