

## Agasthya 2013 Series Biomass Gas Analyzer Model BI 7210



Agasthya 2013 series BI7210 Biomass Gas Analyzer is 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<sub>2</sub>, CO and CH<sub>4</sub>. In addition, the analyzer can also be supplied with a non-consumable, long-life thermal conductivity cell for H<sub>2</sub> that compensates for the interference effects of CO<sub>2</sub>, CO and CH<sub>4</sub>. This ensures that H<sub>2</sub> will always read correctly regardless of the background gas composition.

Paramagnetic sensor can be used for O<sub>2</sub> 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 reading
- 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
- RS 485, supports MODBUS protocol
- High range on each channel available (up to 100%)
- H<sub>2</sub> reading is compensated for the interference effect of the other gases measured
- PTFE sample lines & sample components (where prudent)

**Specification**

Method of Detection	: NDIR infrared sensor for CO, CO <sub>2</sub> , CH <sub>4</sub> Electrochemical sensor for O <sub>2</sub> (Paramagnetic sensor as option) Thermal Conductivity sensor for H <sub>2</sub>
Ranges Available	: O <sub>2</sub> : 0-25%, 0-50%, 0-100% Resolution: 0.10% CO: 0-10%, 0-50%, 0-100%, Resolution: 0.10% CO <sub>2</sub> : 0-10%, 0-50%, 0-100%, Resolution: 0.10% CH <sub>4</sub> : 0-50%, 0-70%, 0-100%, Resolution: 0.10% H <sub>2</sub> : 0-5% 0-50%, 0-100%, Resolution: 0.10%
Accuracy & Repeatability	: ± 2% of reading for all gases
Drift	: Less than 2% of full scale per month
Response Time (T-90)	: 20-30 seconds
Ambient Temperature Range	: 4 to 50°C
Power	: 80 to 230 VAC 50 Hz
Output	: Isolated 4-20 mA standard RS 485, supports MODBUS protocol
Relay Output	: 2 Nos. of potential free contacts