

Agasthya 2013 Series Producer Gas Analyzer Model BI 7220



Agasthya 2013 series BI7220 Producer 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, CO₂ and CH₄. In addition, the analyzer can also be supplied with a non-consumable, long-life thermal conductivity cell for H₂ that compensates for the interference effects of CO, CO₂ and CH₄. This ensures that H₂ will always read correctly regardless of the background gas composition.

Paramagnetic sensor can be used for O₂ 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 Cortex-M3 ARM Processor
- 5.7" QVGA TFT Touch Screen Display
- Touch-screen display for gas reading
- Built-in sample pump or pressure regulator
- Tried and tested technology with proven reliability
- High range on each channel available (up to 100%)
- H₂ reading is compensated for the interference effect of the other gases measured
- Automatic moisture removal system included
- RS 485, supports MODBUS protocol & Ethernet as option
- Isolated 4-20 mA analog output for each gas
- Hi / Low gas, low flow and other alarms available
- Cabinet purge system available
- PTFE sample lines & sample components (where prudent)

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Specification

Method of Detection	: NDIR infrared sensor for CO, CO ₂ , CH ₄ Electrochemical sensor for O ₂ (Paramagnetic sensor as option) Thermal Conductivity sensor for H ₂
Ranges Available	: O ₂ : 0-25%, 0-50%, 0-100% Resolution: 0.10% CO: 0-10%, 0-50%, 0-100%, Resolution: 0.10% CO ₂ : 0-10%, 0-50%, 0-100%, Resolution: 0.10% CH ₄ : 0-50%, 0-100%, Resolution: 0.10% H ₂ : 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

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