

PRODUCER GAS ANALYZER MODEL 7220

The Agasthya series BI 7220 Producer 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, 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 readings
- Built-in sample pump or pressure regulator
- Tried and tested technology with proven reliability
- High ranges on each channel available (up to 100%)
- H₂ reading is compensated for the interference effects of the other gases measured
- Automatic moisture removal system included
- RS485, MODBUS & 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)



Bhoomi Advantages

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

Specifications

- Method of Detection : NDIR infrared sensor for CO, CO₂ and CH₄
Electrochemical sensor for O₂ (Paramagnetic sensor as option)
Thermal conductivity cell for H₂
- Ranges Available: : O₂ 0-25.0%, 0-50.0%, 0-100.0%
H₂ 0-5.0%, 0-50.0%, 0-100.0%
CO 0-10.0%, 0-50.0%, 0-100.0%
CO₂ 0-10.0%, 0-50.0%, 0-100.0%
CH₄ 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