

LAND FILL GAS ANALYZER MODEL 7100

The Agasthya series BI 7100 Land Fill Gas Analyzer has been designed for monitoring recovered and processed gases from landfill and biogas sites.

This equipment continuously removes moisture from the wet sample gas and comes complete with pre-filter, sample pump, flow meter, continuous moisture removal system, long-life O₂, CO₂ & CH₄ sensor alarm relay contacts and 4-20mA outputs for each gas measured.

Features:

- 32-Bit Cortex-M3 ARM Processor
- 5.7" QVGA TFT Touch Screen Display
- Built in sample pump, pre-filter, filters and flow meter
- Relays for high & low alarms
- Long life electrochemical O₂ sensor
- Automatic system for sample conditioning
- RS485, MODBUS & Ethernet as option
- Temperature controlled sensors for maximum stability
- Isolated 4 - 20 mA outputs for each gas
- Infrared sensors for reliable measurement of CO₂ and CH₄
- Cabinet positive-pressure system to minimize the corrosive effects of hydrogen sulfide (H₂S) on cabinet electronics & sensors
- PTFE tubing and corrosion-resistant components for internal sample health



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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 CO₂, CH₄ & CO (option)
Electrochemical sensor for O₂
Electrochemical sensor for H₂S (option)
- Ranges Available : O₂ 0-25.0%
CO₂ 0-10.0%, 0-50.0%, 0-100.0%
CH₄ 0-50.0%, 0-70.0%, 0-100.0%
H₂S 0-200 ppm, 0-2500 ppm
CO 0-5.0%
- 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