

Agasthya 2013 Series Landfill Gas Analyzer Model BI 7100



Agasthya 2013 series BI7100 Landfill Gas Analyzer is designed to measure the gases like CH₄, H₂S, CO, CO₂ & O₂ recovered and processed from Landfill sites.

BI7100 Landfill gas analyzer 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 moisture removal system included
- RS485, supports MODBUS protocol
- Temperature controlled sensors for maximum stability
- Isolated 4-20 mA analog output for each gas
- Infrared sensor for reliable measurement of CO₂ and CH₄
- Cabinet positive-pressure system to minimize the corrosive effects hydrogen sulfide (H₂S) on cabinet electronics & sensors
- PTFE tubing and corrosion-resistant components for internal sample health

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Specification

Method of Detection	: NDIR infrared sensor for CO, CO ₂ , CH ₄ Electrochemical sensor for O ₂ Electrochemical sensor for H ₂ S
Ranges Available	: O ₂ : 0-25% Resolution: 0.10% CO: 0-5%, Resolution: 0.10% CO ₂ : 0-10%, 0-50%, 0-100%, Resolution: 0.10% CH ₄ : 0-50%, 0-70%, 0-100%, Resolution: 0.10% H ₂ S: 0-200 ppm, 0-2500 ppm, Resolution: 1 ppm
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

BHOOMI Process Management Pvt. Ltd.
(Formerly known as Bhoomi Analyzers)

Head Office :

409, 4th Floor, Avior (Nirmal Galaxy),
Next to Deep Mandir, Opp. Johnson & Johnson,
L.B.S. Marg, Mulund (W), Mumbai - 400080.

Manufacturing Unit :

201, 207, 208, G Wing, Udyog Bhavan No.: 2,
Plot No.: K-3, Additional Ambernath MIDC,
Ambernath-East-421506, Dist.: Thane, Maharashtra.

Phone : + 91-22-25916858, 25916916 Cell : +91 7777071509
Email : sales@bhoomiltd.com / bhoomianalyzers@gmail.com
Website : www.bhoomiltd.com