

NOVA

Dependable Gas Analysis Solutions

900H SERIES HAND-HELD ANALYZER FOR LANDFILL SITES



APPLICATIONS

For intermittent analysis of oxygen (O₂), methane (CH₄), and carbon dioxide (CO₂) in recovered gases from landfill and biogas sites.

FEATURES

- Backlit digital display for gas analysis readouts
- Rugged design that is easy to operate
- Temperature-compensated sensors for maximum stability
- Long-life electrochemical O₂ sensor
- Infrared CO₂/CH₄ detector
- Flexible sample hose with in-line H₂S pre-filter & liquid block
- Sealed cabinet to minimize corrosive effects of hydrogen sulfide (H₂S) on internal electronics & sensors
- Built-in sample pump and internal water separator
- Analyzer data can be stored in on-board memory for later viewing
- 'Hold' function allows user to hold the current values in the display until 'Resume' button is pressed

CALIBRATION

- Ambient air for O₂ span and CO₂ & CH₄ zero
- Analyzed calibration gas of CO₂ and CH₄ in nitrogen for CO₂ & CH₄ span and O₂ zero



NOVA ANALYTICAL SYSTEMS

www.nova-gas.com

Well-head photo from:
<http://www.epa.gov/lmop/basic-info/lfg.html>

DESCRIPTION

The Nova 900H Series Hand-held Landfill analyzers have been designed for spot-check monitoring of recovered and processed gases from landfill and biogas sites. This analyzer continuously separates moisture from wet sample gas. The 900H Series comes complete with flexible sample hose and in-line pre-filters for H₂S, gross condensate, and particulate. The O₂ analysis is by long-life electrochemical sensor, and the CO₂/CH₄ analysis is by infra-red detector. The sensors are temperature-compensated to reduce drift due to ambient temperature swings.

SPECIFICATIONS

Nova reserves the right to specification changes which may occur with advances in design without prior notice.

Description	
Method of Detection:	Long-life electrochemical O ₂ sensor, NDIR infrared CH ₄ & CO ₂ detector
Ranges Available:	0-25.0% O ₂ 0-100.0% HC's as CH ₄ 0-100.0% CO ₂
Resolution:	0.1% on CO ₂ , O ₂ , & CH ₄
Accuracy and Repeatability:	±1% of full scale
Drift:	Less than 2% of full scale per month
Response Time (T-90):	Less than 30 seconds not including sample line delay
Ambient Temperature Range:	40-120°F (4-48°C)
Linearity:	±1% of full scale for each gas measured
Size and Weight:	Approx. 7.5"L x 3.5"W x 2"D @ 2 lbs (19 x 9 x 5 cm @ 1 kg)
Power:	10-16VDC, less than 1A; rechargeable lithium-ion battery pack
Output Options:	RS-232 and 0-5VDC

UNIQUE APPLICATIONS

All Nova analyzers are built using proven technologies and techniques. If this product does not suit your application, please contact Nova at 1-800-295-3771. In many cases, we are able to build an analyzer specific to your needs.



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