



900P SERIES PORTABLE ANALYZERS FOR LANDFILL SITE AND BIOGAS RECOVERY & PROCESSING

APPLICATIONS

For intermittent analysis of oxygen (O₂), methane (CH₄), and/or carbon dioxide (CO₂) in recovered gases from landfill and biogas sites. Hydrogen sulfide (H₂S) readout optional.

FEATURES

- Digital displays for each gas
- Rugged design that is easy to operate
- Temperature-compensated sensors for maximum stability
- Long-life electrochemical O₂ and H₂S sensors
- Modular, field-cleanable infrared CO₂/CH₄ detector
- Sealed cabinet to minimize corrosive effects of hydrogen sulfide (H₂S) on internal electronics & sensors
- Built-in sample pump, pre-filter, filters, and flow meter
- Built-in water separator

OPTIONS

- 4-20mA outputs for each gas
- H₂S readout (see ranges & models)
- Gas hi/low alarms with beeper and indicator lights

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



902P (O₂ & CH₄ analysis)



903P (O₂, CH₄, & CO₂ analysis)

DESCRIPTION

The Nova 900P Series Portable Landfill analyzers have been designed for monitoring recovered and processed gases from landfill and biogas sites. This analyzer continuously removes moisture from wet sample gas. The 900P Series comes complete with pre-filter, sample pump, flow meter, built-in water separator, PTFE liquid blocker, long-life O₂ sensor, and infrared CO₂/CH₄ detector. The sensors are temperature-compensated to reduce drift due to ambient temperature swings.

MODELS

- 900P - O₂
- 901P - CH₄
- 902P - O₂ and CH₄
- 903P - O₂, CH₄, and CO₂
- Other combinations can be requested

Other analysis options available
(added as suffix to model #):

- H1 - H₂S, range 0 - 200 to 0 - 2500 PPM

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 and H ₂ S sensors, NDIR infrared CH ₄ & CO ₂ detector
Ranges Available:	0-25.0% O ₂ ; any range between 0-50.0% to 0-100.0% CH ₄ , CO ₂ ; 0-200 to 2,500 PPM H ₂ S
Resolution:	0.1% on CO ₂ , O ₂ , & CH ₄ , 1 PPM H ₂ S
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. 15" L x 8" W x 7½" H @ 10 lbs (38 x 20 x 19 cm @ 4½ kg) Physical data may vary depending on options required
Power:	Rechargeable battery & AC; 115VAC 60Hz (220VAC 50Hz available); recharger supplied loose
Output Options:	4-20ma into 500 ohms non-isolated
Alarms:	Optional high O ₂ , high CO ₂ , high H ₂ S, & low CH ₄

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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