

NOVA

MODEL 4170MN4X

OXYGEN AND METHANE ANALYZER

APPLICATIONS

For monitoring oxygen and methane in recovered gases from a landfill site.



OPTIONS

- Isolated 4-20ma outputs
- CO₂ detector also available (Model 41270)

FEATURES

- Long life oxygen sensor
- Infra red methane detector
- Microprocessor electronics
- LED digital readouts
- Automatic moisture removal
- Built in sample pump, filters and flowmeter
- NEMA 4x enclosure (IP65)
- 4-20ma outputs for each gas
- Sample pre-filter included
- Alarm relays
- Low flow alarm included

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DESCRIPTION

The Nova Model 4170M Dual Gas Oxygen and Methane Analyzer has been designed for monitoring recovered gases from a landfill site. The analyzer continuously removes moisture from the wet sample gas without the need for cooling water or compressed air.

The 4170M is complete with pre-filter, sample pump, flowmeter, thermo-electrically cooled condenser, teflon liquid block, long-life oxygen sensor, infra red methane detector, LED digital readouts, low flow sensor, alarm relays and 4-20ma outputs for each gas.

A microprocessor controls all calibration functions of the analyzer.

Also available are isolated 4-20ma outputs and a separate CO₂ detector with meter (Model 41270).

CALIBRATION

On ambient air for O₂ span and CH₄ zero. On analyzed calibration gas of CH₄ in nitrogen for CH₄ span and O₂ zero.

SPECIFICATIONS

DESCRIPTION	
Method of Detection:	Long life electrochemical oxygen sensor Infra red methane detector
Ranges:	0 - 25.0% oxygen Any range between 0 - 50.0% and 0-100% methane
Display:	LED digital for each gas
Accuracy and Repeatability:	±2% of full scale
Drift:	Less than 2% F.S. per month
Response Time:	Less than 30 seconds, not including sample line delay
Operating Temperature Range:	40 to 120 °F (4 to 48 °C)
Size:	20" H x 16" W x 8" D (50 x 40 x 20 cm)
Weight:	22 lbs. (10 kg)
Power:	115 VAC or 230 VAC 50/60 Hz
Output:	4-20ma for each gas. Isolated outputs optional
Alarms:	High O ₂ , low CH ₄ and low flow. SPDT relays with 10A contacts

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

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