

NOVA

Dependable Gas Analysis Solutions



321 SERIES PORTABLE PROCESS OXYGEN ANALYZER

APPLICATIONS

Analysis of oxygen (O₂) concentration in industrial process gas or purging and blanketing gases.

FEATURES

- Rugged design that is easy to operate and maintain
- Fast warm-up and response
- Long life 'fuel cell' oxygen sensor (3-4 year life)
- Digital readout meter with backlight
- Rechargeable battery operation
- Built-in sample pump or pressure regulator, filter and flow meter
- Weatherproof (WP) cabinet with clear Lexan cover
- Stainless steel probe with sample hose

OPTIONS

- Outputs of 0-1V or 4-20 mA
- Sample pre-cooler for hot or wet sample gases
- Suitcase (K) style cabinet available
- AC only power operation
- Detachable/portable data logger

CALIBRATION

- On air for span
- On nitrogen for zero



Weatherproof (WP) Enclosure



Suitcase (K) Enclosure



Optional
Ice Bath
Precooler

NOVA ANALYTICAL SYSTEMS

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DESCRIPTION

The Nova 321 Portable Process Oxygen Analyzer utilizes a reliable, stable oxygen sensor which responds quickly to the oxygen present in a gas sample. Its life expectancy is between 3 and 4 years. The sensor is not affected by acidic gases such as carbon dioxide or sulfur dioxide and can operate in a background of hydrogen and many other gases. It is very easy for the customer to replace and at a reasonable cost.

A rechargeable 'gel cell' battery provides enough power for the pump and electronics for about 20 hours of continuous operation. The analyzer may still be operated while it is being charged. A red LED indicates when to recharge the analyzer and a green LED indicates that it is receiving recharging power. The battery recharger is included with the analyzer.

The detected O₂ is displayed on an LCD digital meter that has a switchable backlight for use in dark areas. The analyzer is supplied with a 12ft. sample hose and either a sample pump or pressure regulator.

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 oxygen sensor
Ranges Available:	0-5.0%, 0-10.0%, 0-25.0% and 0-50.0% O ₂
Resolution:	0.1% O ₂
Accuracy and Repeatability:	±1% of full scale (±2% for over 30% O ₂)
Drift:	< 2% of full scale for 8 hours of operation
Response Time (T-90):	8-10 seconds for 90% of step change
Ambient Temperature Range:	32° to 105°F (0-40°C)
Linearity:	±1.0% of full scale
Size and Weight:	WP style - approx. 10" L x 7½" H x 6½" D @ 8 lbs (25.5 x 19 x 16.5 cm @ 3.6 kg) K style - approx. 14" L x 6" H x 10½" D @ 8 lbs (35.5 x 15.2 x 26.6 cm @ 3.6 kg)
Power:	115VAC 60Hz for recharging (other voltages available)
Output:	0-1V or 4-20mA (optional)

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.



NOVA ANALYTICAL SYSTEMS
A UNIT OF TENOVA GOODFELLOW INC.

IN USA:
1925 Pine Avenue • Niagara Falls, NY • 14301
Tel: 1-800-295-3771 • 716.285.0418 • Fax: 716.282.2937
IN CANADA:
270 Sherman Avenue North • Hamilton, ON • L8L 6N5
Tel: 905.545.2003 • Fax: 905.545.4248
email: sales@nova-gas.com
websales@nova-gas.com



www.nova-gas.com