



4I2 FLEXI-NOVA SERIES CONTINUOUS LIGHT DUTY OXYGEN ANALYZER WITH PARAMAGNETIC DETECTOR



APPLICATIONS

For continuous analysis of oxygen (O_2) using a paramagnetic type detector, in clean dry process gas streams that contain gases that interfere with other methods of O_2 measurement. For high accuracy or high purity applications.

FEATURES

- Highest accuracy O2 analyzer, very stable
- Fast response (T90 4 to 5 seconds); linear over entire 0-100% range
- Touch-screen display for gas readings
- Non-consummable paramagnetic O₂ detector, no periodic sensor replacement required; easy-to-maintain modular layout
- Built-in sample pump or pressure regulator
- Non-isolated 4-20mA recorder output
- To improve accuracy, detector can optionally be temperature-controlled and compensated for changes in barometric pressure in the vented sample

OPTIONS

- Hi/Low gas and low flow alarms available
- Serial output & data-logger package available
- · Light-duty pre-filter & condensate removal
- Up to 6 other gases measured (depending on application)
- Cabinet cooling available





Optional rack-mount cabinet

- On ambient air or bottled O2 gas for Span
- On bottled N2 for Zero

CALIBRATION

NOVA ANALYTICAL SYSTEMS www.nova-gas.com

DESCRIPTION

The Nova FLEXI-NOVA Series Platform has been designed for continuous gas measurements in applications and environments that are less intensive. Lab work, research, clean processes, pre-treated / pre-cleaned produced gases, and others, may benefit from the FLEXI-NOVA series. Depending on application, some light-duty sample conditioning features may be available.

For clean process measurements, percent-level O2 gas. This sensor utilizes a paramagnetic measuring cell and powerful selenium cobalt magnet assembly to make use of the principle that oxygen is drawn into a magnetic field, thereby offering a method of detection that is very specific to oxygen. Sample dew point should be at least 5°C (9°F) below lowest sample temperature.

All sensors / detectors are temperature-controlled or temperature-compensated for maximum analytical stability. Easy calibration using touch-screen controls. Serial Output Package allows connection & data-logging to personal computers via a choice of USB / RS-232 / RS-485.

SPECIFICATIONS	Nova reserves the right to specification changes which may occur with advances in design without prior notice.
Description	
Method of Detection:	Magneto-dynamic paramagnetic O2 cell, heated and temperature-controlled
Ranges Available:	Without back-pressure control: 1.0, 2.0, 5.0 % O2 With back-pressure control: 1.00, 2.00, 5.00, 25.00, 100.0 % O2
Resolution:	0.1% or 0.01% O ₂ , depending on back-pressure control
Accuracy and Repeatability:	±1% of full scale
Drift:	±0.2% of full scale per month.
Response Time (T-90):	4 - 5 seconds at a sample flow of 1 LPM
Ambient Temperature Range:	40 to 104°F (4 to 40°C). Optional: up to 130°F (55°C) with cabinet cooler
Linearity:	±0.5% of full scale or 0.05%, whichever is greater
Approximate Size:	NEMA 4: 51H x 41W x 26D cm (20"H x 16"W x 10"D) RACK MOUNT: 22H x 48W x 47D cm (8.7"H x 19"W x 16"D)
Power:	115VAC 60Hz (220VAC 50Hz available)
Output Options:	4-20mA into 500 ohms non-isolated standard Isolated 4-20mA, RS232, RS485, MODBUS®, Ethernet outputs optional
Alarms:	High and/or low alarm contacts available, relay contacts SPDT 5A @ 220VAC rating. Low flow alarm optional

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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.





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



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