NOVA
Dependable Gas Analysis Solutions

FLEXI-NOVA

410 FLEXI-NOVA SERIES
CONTINUOUS LIGHT-DUTY OXYGEN ANALYZERS

APPLICATIONS

Light-duty analyzers for applications or environments that are less intensive. For continuous analysis of oxygen (O_2) using a long-life electrochemical sensor. For clean process gas streams and other applications such as O_2 enrichment of combustion air, process oxygen streams, oxygen deficiency analysis, and many more.

Standard NEMA4 wall-mount cabinet

FEATURES

- Best value continuous O_2 analyzer
- Touch-screen display for gas readings
- Long-life electrochemical O_2 sensor
- Fast response (T90 - 6 to 8 seconds)
- Easy-to-maintain modular layout
- Built-in sample pump or pressure regulator
- Non-isolated 4-20mA recorder output

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

CALIBRATION

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

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 is unaffected by most other gases in the sample including acidic gases such as carbon dioxide (CO_2), hydrogen sulfide (H_2S), and sulfur dioxide (SO_2). Typical O2 sensor life is 3-5 years depending on measurement concentrations.

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:	Customer replaceable electrochemical 'fuel cell' O_2 sensor. Expected life is 3 to 5 years depending on measurement concentrations.
Ranges Available:	FLEX-410: Any range from 0-2.0% to 0-90.0% O_2
Resolution:	0.1% O_2
Accuracy and Repeatability:	Below 30% O_2 ±1% of full scale; above 30% O_2 ±2% of full scale
Drift:	Less than 2% of full scale per month.
Response Time (T-90):	Usually 6-8 seconds to 90% step change
Ambient Temperature Range:	40 to 104°F (4 to 40°C). Optional: up to 130°F (55°C) with cabinet cooler
Linearity:	±1% of full scale
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

UNIQUE APPLICATIONS

All Nova analyzers are built using proven technologies and techniques for use on non-corrosive gas streams. 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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