NOVA

Dependable Gas Analysis Solutions

415 FLEXI-NOVA SERIES

CONTINUOUS LIGHT-DUTY PPM OXYGEN ANALYZERS

APPLICATIONS

Light-duty analyzers for applications or environments that are less intensive. For continuous analysis of PPM levels of oxygen (O_2) in clean / dry gas streams. Applications include blanketing mixtures, glove boxes, electronics, research, hydrogen/nitrogen mixtures, and many others.

FEATURES

- Touch-screen display for gas readings
- Ranges available from 0 to 100 PPM to 0 to 9,999 PPM O_2
- Electrochemical O2 sensor is unaffected by hydrocarbons in the sample
- Solenoid valves trap PPM O_2 sample to avoid sensor depletion when analyzer is powered off
- Easy-to-maintain, modular layout
- Non-isolated 4-20mA recorder output

Standard NEMA4 wall-mount cabinet

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, PPM-level O2 gas. This electrochemical type sensor is unaffected by most other gases in the sample including most hydrocarbons and acidic gases such as carbon dioxide (CO_2), hydrogen sulfide (H_2S), and sulfur dioxide (SO_2). Typical O2 sensor life is 1-2 years or longer depending on measurement concentrations and sample gas exposure. The sensor may be easily replaced by the customer.

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 ppm oxygen sensor
Ranges Available:	Any range between 0-100 PPM and 0-10,000 PPM
Resolution:	1 PPM
Accuracy and Repeatability:	±1% of full scale
Drift:	Less than 1% of full scale per week
Response Time (T-90):	In some cases, ppmO_2 sensor may require an initial purge-down from air to low PPM O_2 which may last 1-2 hours. After purge, T90 response O_2 is less than 20 seconds.
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
Size and Weight:	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

The O_2 sensor in the Model 415 is not normally affected by gas stream composition. However, continuous or frequent exposure to high levels of acid gases such as carbon dioxide (CO_2) and sulfur dioxide (SO_2) can cause decreased cell life. 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
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