



Dependable Gas Analysis Solutions



485 SERIES

CONTINUOUS AMBIENT AIR OR PROCESS NITROGEN DIOXIDE ANALYZER

APPLICATIONS

For continuous analysis of nitrogen dioxide (NO₂) in ambient air or process gas streams using an electrochemical sensor. PPM ranges available only.

FEATURES

- Ambient range PPM (485A) NO₂ by electrochemical sensor
- Process range PPM (485P) NO₂ by electrochemical sensor
- Bright digital readout
- Microprocessor control with push button calibration
- Easy-to-maintain modular layout
- Sensor is temperature controlled for maximum stability
- Built-in sample pump, flowmeter, and filters
- 4 - 20 mA output

OPTIONS

- Hi/Low gas, low flow, and diagnostic alarms available
- Isolated analog, RS232, RS485, MODBUS®, and Ethernet outputs available
- Sample conditioning systems available
- Cabinet purge system available for use in hazardous areas
- Full automatic calibration with touch screen LCD display
- Cold weather package for operation to -5°F (-20°C)
- Cabinet coolers can be fitted to most models
- High temperature filters and probes

CALIBRATION

- Easily zero checked on ambient air
- Span using a known NO₂ in nitrogen (N₂) calibration gas.



Wall Mount (N4) Enclosure



Wall Mount Enclosure with Purge Kit
for hazardous-rated areas

DESCRIPTION

The Nova 485 Series NO₂ analyzers utilize a reliable, electrochemical specific to PPM NO₂. In operation, the internal sample pump draws the sample gas through the filter, secondary filter, flow meter, and then on to the sensor/detector. The detector output is digitally linearized and then displayed as PPM NO₂ on the digital meter. The output is also available as an analog or digital signal. A regulator will be supplied for applications that have a pressurized sample.

MODELS

- 485AN4 - A range : 0-20 PPM NO (for ambient air analysis)
- 485PN4 - P range : any range from 0-100 to 0-800 PPM (for process analysis)

SPECIFICATIONS

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

Description

Method of Detection:	PPM NO ₂ by electrochemical sensor
Ranges Available:	485AN4 - A range : 0-20 PPM NO ₂ (for ambient air analysis) 485PN4 - P range : any from 0-100 to 0-800 PPM NO ₂ (for process analysis)
Resolution:	10 PPM
Accuracy and Repeatability:	±2% of full scale
Drift:	Less than 2% of full scale per month.
Response Time (T-90):	Less than 60 seconds to T-90
Ambient Temperature Range:	40-122°F (5-50°C). Lower temperatures (-20°C, -5°F) with Cold Weather Package.
Linearity:	±2% of full scale
Size and Weight:	Physical data will vary depending on enclosure style and options required
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

Electrochemical NO₂ sensors may produce a response in the presence of other interfering gases. Consult Nova on your specific application. 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.



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