



# Model N201

## Chemiluminescence NH<sub>3</sub> Analyzer



- ▶ Selectable Ranges for NH<sub>3</sub>, NO, NO<sub>2</sub> and NO<sub>x</sub>
- ▶ Automatic Baseline Correction as Part of PMT Drift Compensation
- ▶ Internal Zero and Span Valves (optional)
- ▶ Customizable Alerts and Continuous Self-Checking
- ▶ High Efficiency External N501 NH<sub>3</sub> Thermal Converter



### N Series Platform Features

- Color Touch-Screen Graphics Display
- Two Front Panel USB Ports
- Modular Internal Hardware Design
- All DC-Powered Internal Components
- Large Internal Data Storage
- Serial and TCP/IP Ethernet Included
- Digital and Analog Expansion Options
- Indicator Illuminated Soft Power Switch
- Split Fold-Down Rear Panel

The Model N201 NH<sub>3</sub> Analyzer uses chemiluminescence detection combined with an external N501 thermal converter, providing accurate and dependable measurements of trace ammonia (NH<sub>3</sub>), nitric oxide (NO), nitrogen dioxide (NO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>) and total nitrogen compounds (TN<sub>x</sub>).

Exceptional stability is ensured through an auto-zero reference valve, which corrects for photomultiplier tube (PMT) drift. Operational parameters are continuously tracked with user-configurable alerts, predictive diagnostics and comprehensive data storage capabilities. Data acquisition can be configured conditionally or periodically, enabling in-depth performance monitoring and analysis. Real-time graphs of measured parameters are easily accessible via the intuitive NumaView™ software touchscreen interface.

The N201 instrument functions and controls are managed through a series of integrated microprocessor-controlled modules utilizing a simple and reliable CAN Bus communication architecture. Each module is independently assembled and calibrated allowing easy and fast field replacement to maximize instrument uptime.

Intuitive operation and calibration of all N Series products is achieved through the NumaView™ Software interface. The graphical user interface (GUI) is customizable, giving the user fast and efficient access to instrument status, as well as measurement data and diagnostic parameters in either numeric or graphical form. NumaView™ Remote Software (included at no charge) provides the same virtual interface and complete instrument control, as well as access to the instrument's large internal data storage buffer from a remote PC or tablet.



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|                               |                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Measurement Units</b>      | ppb, ppm, $\mu\text{g}/\text{m}^3$ , $\text{mg}/\text{m}^3$ (selectable)                                                                                                                                                                                                                                                                                                   |
| <b>Response Time</b>          | < 340 seconds to 90%                                                                                                                                                                                                                                                                                                                                                       |
| <b>Ranges</b>                 | 0-50 ppb to 0-2,000 ppb full scale (selectable)                                                                                                                                                                                                                                                                                                                            |
| <b>Sample Flow Rate</b>       | 1,000 cc/min $\pm$ 10%                                                                                                                                                                                                                                                                                                                                                     |
| <b>Zero Noise</b>             | < 0.5 ppb (RMS)                                                                                                                                                                                                                                                                                                                                                            |
| <b>Span Noise</b>             | < 1% of reading (RMS) above 50 ppb                                                                                                                                                                                                                                                                                                                                         |
| <b>Lower Detectable Limit</b> | < 1 ppb                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Precision</b>              | 0.5% of reading above 50 ppb                                                                                                                                                                                                                                                                                                                                               |
| <b>Linearity</b>              | 1% of full scale                                                                                                                                                                                                                                                                                                                                                           |
| <b>Zero Drift</b>             | < 0.5 ppb/24 hours ( $\text{NO}$ , $\text{NO}_x$ )                                                                                                                                                                                                                                                                                                                         |
| <b>Span Drift</b>             | < 1% of full scale/24 hours                                                                                                                                                                                                                                                                                                                                                |
| <b>Included I/O</b>           | 1 x Ethernet (TCP/IP)<br>1 x RS-232<br>2 x Front USB ports                                                                                                                                                                                                                                                                                                                 |
| <b>Optional I/O</b>           | Universal Analog Output Board includes (all user-definable):<br>4 x Isolated voltage outputs (5V, 10V, user-selectable)<br>3 x Individually isolated current outputs (4-10 mA)<br>Digital I/O Expansion Board includes:<br>3 x Isolated digital input controls<br>5 x Isolated digital output controls (user-definable)<br>3 x Form C relay alarm outputs (user-definable) |
| <b>Dimensions</b>             | Analyzer: 7"H x 17"W x 24.3"D (178 x 432 x 617 mm)<br>Converter: 7"H x 17"W x 22.5"D (178 x 432 x 572 mm)<br>External Pump: Refer to external pump pack manual (PN 0790000000)                                                                                                                                                                                             |
| <b>Weight</b>                 | Analyzer: 35 lbs (16 kg)<br>Converter: 20 lbs (9 kg)<br>External Pump: Refer to external pump pack manual (PN 0790000000)                                                                                                                                                                                                                                                  |
| <b>Operating Temperature</b>  | 15° to 40°C                                                                                                                                                                                                                                                                                                                                                                |
| <b>Power</b>                  | Analyzer: 100-240V~, 50/60 Hz, 3.0 A; Typical power consumption: 125W<br>Converter: 100-120V~, 220-240V~, 50/60 Hz, 4.0 A; Typical power consumption: 480W<br>External Pump: Refer to external pump pack manual (PN 0790000000)                                                                                                                                            |
| <b>Certifications</b>         | CE Compliant                                                                                                                                                                                                                                                                                                                                                               |

Specifications subject to change without notice.  
All specifications are based on constant conditions.

**All N Series Instruments include a 2-year manufacture's warranty as well as email and phone support for the lifetime of the instrument.**



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