





Model T201 Chemiluminescence NH₃ Analyzer

The Model T201 combines a specially configured chemiluminescence analyzer with an external thermal converter to give stable and repeatable $\rm NH_3$ measurements at very low levels. In addition, the T201 provides simultaneous values for $\rm NO$, $\rm NO_2$, and $\rm NO_X$ concentrations. The T201 is ideal for trace ammonia monitoring applications in ambient air as well as in clean rooms and make-up air units. Optional zero and span valves allow automatic, unattended calibration checks.

The Model T201 achieves its remarkable stability by means of an AutoZero valve which measures and corrects for zero noise. Multiple self-checks are performed continuously to insure maximum up-time while an innovative sample path, plumbed with specially conditioned materials, preserves the NH₃ sample and reduces interferents to a minimum.

All T Series instruments offer an advanced color display, capacitive touch screen, intuitive user interface, flexible I/O, and built-in data acquisition capability. All instrument set up, control and access to stored data and diagnostic information is available through the front panel, or via RS232, Ethernet, or USB com ports either locally or by remote connection using the included APlcom™ software.

- Ranges: 0-50 ppb to 0-2,000 ppb, user selectable
- Independent ranges for NH₃, NO, NO₂, NO_x
- Large, vivid, and durable color graphics display with touch screen interface
- Ethernet, RS-232, and (optional) USB com ports
- Front panel USB connections for peripheral devices and firmware upgrades
- 8 analog inputs (optional)
- Adaptive signal filtering optimizes response time
- Temperature & pressure compensation
- Comprehensive internal data logging with programmable averaging periods
- Ability to log virtually any operating parameter
- >> Two-year warranty

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Specifications

General Min: 0-50 ppb Full scale Ranges: Max: 0-2,000 ppb Full scale (selectable, independent NH3, NO, NO2, NOX ranges supported) Measurement Units: ppb, ppm, µg/m³, mg/m³ (selectable) Zero Noise: < 0.5 ppb (RMS) Span Noise: < 0.5% of reading (RMS) above 50 ppb Lower Detectable Limit: 1 ppb Zero Drift: < 0.5 ppb/24 hours Span Drift: < 1% of full scale/24 hours Lag Time: 40 seconds < 120 seconds to 90% Rise and Fall Time: Linearity: 1% of full scale Precision: 0.5% of reading Sample Flow Rate: 1000 cm³/min ±10% **Electrical Specifications** Power Requirements: 100V-120V, 220V-240V, 50/60 Hz Analog Output Ranges: 10V, 5V, 1V, 0.1V (selectable) Recorder Offset: ±10% **Communication Specifications** Included I/O: 1 x Ethernet: 10/100Base-T 2 x RS232 (300-115,200 baud) 2 x USB device ports 8 x opto-isolated digital outputs 6 x opto-isolated digital inputs 4 x analog outputs Optional I/O: 1 x USB com port 1 x RS485 8 x analog inputs (0-10V, 12-bit) 4 x digital alarm outputs Multidrop RS232 3 x 4-20mA current outputs **Physical Specifications** Operating Temperature Range: 5 - 40°C Dimensions (HxWxD): Analyzer: 7" x 17" x 23.5" (178 x 432 x 597 mm) Converter: 7" x 17" x 23.5" (178 x 432 x 165 mm) Weight: Analyzer: 43 lbs (19.5 kg)

External pump: 15 lbs (7 kg)

How to Order

Model T201 includes:
☐ Two year warranty
External pump or internal pump (optional)
☐ Independent ranges
☐ 47mm diameter particulate filter
☐ 8 isolated digital outputs
6 isolated digital inputs
RS-232 ports
☐ Ethernet port
 ☐ USB ports for peripheral devices ☐ APIcomTM remote control
software
☐ Select AC input voltage
□ 100V - 120V □ 50Hz
□ 220V - 240V □ 60Hz
☐ Select DC output voltage
□10V □5V
□ 1V □ 0.1V
Calibration Options:
☐ Ambient zero and ambient span
Mounting Options:
☐ Rack mount brackets with chassis slides
☐ Rack mount brackets only
☐ Handle
I/O Options:
4-20mA outputs (up to three channels)
☐ USB com port
□ 8 Analog Inputs
☐ Multi-drop RS232
□ RS485
Other Options:
☐ Concentration alarm relays
□ Evpondobles kit

☐ Model 702SS Precision Calibrator

for NH₃ Monitors

The values expressed above are in accordance with EPA definitions. All error specifications are based on constant conditions. Specifications subject to change without notice. Printed documents are uncontrolled. SAL000051A (DCN 5815) T201/11.08.10



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