



Model T201 Chemiluminescence NH₃ Analyzer

The Model T201 combines a specially configured chemiluminescence analyzer with an external thermal converter* to give stable and repeatable NH_3 measurements at stack levels. In addition, the T201 provides simultaneous values for NO_X concentrations. The T201 is ideal for stack ammonia monitoring applications.

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 ensure 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 APIcom™ software.

* External converter is part of TML Ammonia Probe.

- Ranges: 0-1 ppm to 0-20 ppm, user selectable
- **▶ Independent ranges for NH₃ and 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: 0-1 ppm full scale Ranges: Max: 0-20 ppm full scale (user selectable). independent NH₃ and NO_x ranges and auto ranging supported Measurement Units: ppm, mg/m³ (selectable) Zero Noise: < 20 ppb (RMS) Span Noise: < 0.2% of reading (RMS) above 20 ppm Lower Detectable Limit: 40 ppb Zero Drift: < 20 ppb/24 hours Span Drift: < 0.5% of reading/24 hours Lag Time: 20 seconds < 60 seconds to 95% (in switching mode) Rise and Fall Time: Linearity: 1% of full scale Precision: 0.5% of reading above 5 ppm 250 cm³/min ±10% Sample Flow Rate: **Electrical Specifications** 100V-120V, 220V-240V, 50/60 Hz Power Requirements: **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) Multidrop RS232 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

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 6.5" (178 x 432 x 165 mm)
Weight:	Analyzer: 43 lbs (19.5 kg) External Pump: 15 lbs (7 kg)

1 x RS485

8 x analog inputs (0-10V, 12-bit)

4 x digital alarm outputs

3 x 4-20mA current outputs

How to Order

Model T201 includes:

- Two year warranty
- External pump
- Independent ranges
- · 47mm diameter particulate filter
- 8 isolated digital outputs
- 6 isolated digital inputs
- RS-232 ports
- Multi-drop RS232
- · Ethernet port
- USB ports for peripheral devices
- APIcom™remote control software
- Select AC input voltage:
 □ 100V 120V □ 50Hz
 □ 220V 240V □ 60Hz
- Select DC output voltage:

 □ 10V □ 5V
- □ 1V □ 0.1V

Mounting Options:

- Rack mount brackets with chassis slides
- □ Rack mount brackets only

I/O Options:

- 4-20mA outputs (up to three channels)
- ☐ USB com port
- □ 8 Analog Inputs
- □ RS485

Other Options:

- □ Concentration alarm relays
- □ Consumables kit
- □ Internal Pump and Fittings
- □ O₂ 0-25% Paramagnetic sensor

The values expressed above are in accordance with EPA definitions. All error specifications are based on constant conditions.

Specifications exceed US EPA and Eignungsgeprüft requirements. Specifications subject to change without notice. Printed documents are uncontrolled.



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For more information about Teledyne ML family of monitoring instrumentation products, call us or visit our website at:

www.teledyne-ml.com

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