

T SERIES



Model T200H High Range Chemiluminescence NO/NO₂/NO_X Analyzer

The Model T200H combines the proven chemiluminescence principle with a number of innovative features to provide reliable and repeatable NO, NO₂, and NO_x measurements for extractive type CEM systems. The option of either a molybdenum converter or a high-efficiency stainless steel thermal NO₂ converter allows the T200H to be used in a variety of extractive CEM systems, from gas turbines to coal-fired boilers.

The T200H may be fitted with an optional, internal paramagnetic O_2 sensor or an infrared absorption CO_2 sensor, reducing integration and operating costs significantly.

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.

- Ranges: 0-5 ppm to 0-5,000 ppm, user selectable
- Independent ranges and auto ranging
- Optional internal O₂ or CO₂ sensor
- 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

Model T200H High Range Chemiluminescence NO/NO₂/NO_xAnalyzer

Specifications

General

Measurement Units:ppm, mg/m³ (selectable)Zero Noise:< 20 ppb (RMS)Span Noise:< 0.2% of reading (RMS) above 20 ppmLower Detectable Limit:40 ppbZero Drift:< 20 ppb/24 hoursSpan Drift:< 0.5% of reading/24 hoursLag Time:20 seconds
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•
Lag Time: 20 seconds
Rise and Fall Time: < 60 seconds to 95% (in switching mode)
Linearity: 1% of full scale
Precision: 0.5% of reading above 5 ppm
Sample Flow Rate: 290 cm ³ /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) 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 1 x RS485 8 x analog inputs (0-10V, 12-bit) 4 x digital alarm outputs 3 x 4-20mA current outputs

Physical Specifications

Operating Temperature Range:	5 - 40°C
Dimensions (HxWxD):	7" x 17" x 23.5" (178 x 432 x 597 mm)
Weight:	Analyzer: 40 lbs (18 kg)
	External Pump: 15 lbs (7 kg)

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.



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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How to Order

Model T200H includes:

- Two year warranty
- External pump
- Charcoal Scrubber Assembly
- Independent ranges and auto ranging
- · 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:

- □ Internal moly converter with O₃ killer, instead of mini-hicon
- □ Concentration alarm relays
- Consumables kit
- \Box O₂ 0-25% Paramagnetic sensor
- \Box CO₂ 0-20% NDIR

Teledyne Monitor Labs, Inc. reserves the right to make changes in construction, design, specifications and/or prices without prior notice.