



Model T265 Chemiluminescence O₃ Analyzer

The innovative T265 is an ultra-high precision ozone analyzer, based on the chemiluminescence of ozone combined with nitrogen oxide. The T265 is safe, stable, and virtually free from interferences. It is ideal in applications where the photometric method may have false-positive indications from fine particulates, Hg, turpines, ClO₂, and VOCs. The analyzer combines the speed of response, sensitivity and stability of our proven nitrogen oxide analyzer, with a simple user interface, to provide reliable ozone measurements under the harshest conditions.

An inexpensive external cylinder of NO provides over one year of reagent for the T265. An innovative AutoZero system ensures zero stability. Optional zero and span valves allow automatic, unattended calibration checks.

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: 0-100 ppb to 0-2,000 ppb, user selectable**
- ▶ **Independent ranges and auto ranging**
- ▶ **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**
- ▶ **Internal programmable zero, span and precision points (optional)**
- ▶ **Comprehensive internal data logging with programmable averaging periods**
- ▶ **Ability to log virtually any operating parameter**
- ▶ **Two-year warranty**

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Specifications

General

Ranges:	Min: 0-100 ppb Full scale Max: 0-2,000 Full scale (selectable, independent ranges and auto ranging supported)
Measurement Units:	ppb, ppm, µg/m ³ , mg/m ³ (selectable)
Zero Noise:	< 0.3 ppb (RMS)
Span Noise:	< 0.5% of reading (RMS) above 100 ppb
Lower Detectable Limit:	< 0.6 ppb
Zero Drift:	< 1.0 ppb/24 hours
Span Drift:	The greater of (< 1% of reading or 1 ppb)/24 hours
Lag Time:	< 10 seconds
Rise and Fall Time:	< 20 seconds to 95%
Linearity:	1% of full scale
Precision:	<0.5% of reading
Sample Flow Rate:	500 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) 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 (with EPA Equivalency)
Dimensions (HxWxD):	7" x 17" x 23.5" (178 x 432 x 597 mm)
Weight:	40 lbs (18.1 kg)

How to Order

Model T265 includes:

- Two year warranty
- Internal pump or external pump (optional)
- Independent ranges and auto ranging
- 47mm diameter particulate filter
- 8 isolated digital outputs
- 6 isolated digital inputs
- RS-232 ports
- 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

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
- Expendables kit

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. SAL000052A (DCN 5815) T265/11.18.10



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

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