



Model T265 Chemiluminescence O₃ Analyzer

The innovative T265 is an ultra-high precision ozone analyzer, based on the chemiluminescence of ozone combined with nitric oxide (NO). 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. A unique AutoZero feature provides superb stability by continuously correcting for zero drift, while advanced Adaptive Filtering allows the analyzer to optimize performance under changing conditions. 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 APIcom™ 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**
- ▶ **Comprehensive internal data logging with programmable averaging periods**
- ▶ **Ability to log virtually any operating parameter**
- ▶ **Two-year warranty**

Free Customer Support by telephone and email for the life of the instrument

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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: | < 0.15 ppb (RMS) |
| Span Noise: | < 0.5% of reading (RMS) above 100 ppb |
| Lower Detectable Limit: | < 0.3 ppb |
| Zero Drift: | < 0.5 ppb/24 hours |
| Span Drift: | < 0.5% of full scale/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

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|-----------------------|--------------------------------|
| Power Requirements: | 100V-120V, 220V-240V, 50/60 Hz |
| Analog Output Ranges: | 10V, 5V, 1V, 0.1V (selectable) |
| Recorder Offset: | ±10% |

Communication Specifications

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|---------------|---|
| 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) |

Certifications

| | |
|---------|---------------|
| US EPA: | EQOA-0611-199 |
|---------|---------------|

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. SAL000052C (DCN 6278) T265/12.07.11



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

www.teledyne-api.com

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