# The Model T500U CAPS $NO_2$ Analyzer


The Model T500U $NO_2$ analyzer is a significant advancement in the measurement of $NO_2$ using a Cavity Attenuated Phase Shift (CAPS) spectroscopy technique to provide highly accurate, real-time, continuous, and direct readings.

*— Available with NumaView™ premium T Series software —*

- Large, vivid, and durable color touchscreen display
- All other T Series instrument platform features
- Lifetime technical support by phone and email
- Standard two-year warranty

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# T500U Specifications

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|---|---|
| Ranges | 0 - 5 ppb to 0 - 1 ppm $NO_2$ |
| Measurement Units | ppb, ppm, µg/$m^3$, mg/$m^3$ (selectable) |
| Zero Noise | < 20 ppt (RMS) |
| Span Noise | < 0.2% of reading (RMS) + 20 ppt |
| Lower Detectable Limit | < 40 ppt |
| Zero Drift | < 0.1 ppb / 24 hours |
| Span Drift | < 0.5% of reading / 24 hours |
| Rise/Fall Time | < 30 seconds to 95% |
| Linearity | < 1% of full scale |
| Precision | 0.5% of reading above 5 ppb |
| Sample Flow Rate | 900 $cm^3$/min ±10% |
| Power Requirements | 80W; 100-250VAC (50-60Hz) |
| Analog Output Ranges | 10V, 5V, 1V, 0.1V (selectable) |
| Recorder Offset | ±10% |
| Included I/O | 1 x Ethernet: 10/100Base-T<br>2 x RS232 (300-115,200 baud)<br>2 x USB device ports<br>8 x opto-isolated digital outputs<br>6 x opto-isolated digital inputs<br>4 x analog outputs |
| Optional I/O | 1 x USB com port<br>1 x RS485<br>8 x analog inputs (0-10V, 12-bit)<br>4 x digital alarm outputs<br>Multidrop RS232<br>3 x 4 - 20mA current outputs |
| Operating Temperature Range | 5 - 40°C (with US EPA Approval) |
| Dimensions (HxWxD) | 7" x 17" x 23.5" (178 x 432 x 597 mm) |
| Weight | 33 lbs (15kg) |
| Certifications* | US EPA: Federal Equivalent Method (EQNA-0514-212)<br>EU: EN14211 TÜV Rheinland<br>QAL1 Certified: EN15267<br>MCerts: Sira MC160304/00 |

* All certifications apply for legacy or NumaView™ T Series analyzer software

NumaView™ software is available as a no-charge option that must be specified at the time of purchase.

Specifications subject to change without notice.
All specifications are based on constant conditions.

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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**



CERTIFIED QUALITY MANAGEMENT SYSTEM ISO 9001:2008 DNV