



The Model T320U Ultra-Sensitive Gas Filter Correlation Correlation N₂O



The Model T320U N₂O analyzer measures Nitrous Oxide by comparing infrared energy absorbed by a sample to that absorbed by a reference gas according to the Beer-Lambert Law. Using a Gas Filter correlation Wheel, a high-energy IR light source is alternately passed through a N₂O filled chamber and a chamber with no N₂O present. The light path then travels through the sample cell, which has a folded path of 14 meters. Inferences from H₂O and CO are eliminated using a Nafion dryer and precious metal catalyst.

— 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 and five years on the GFC wheel

T320U Specifications

■ Ranges	Min: 0 - 200 ppb full scale Max: 0 - 200 ppm full scale (selectable, dual ranges supported)
■ Measurement Units	ppb, ppm, $\mu\text{g}/\text{m}^3$, mg/m^3 (selectable)
■ Zero Noise	< 5 ppb (RMS)
■ Span Noise	< 0.5% of reading (RMS) above 2.5 ppm
■ Lower Detectable Limit	< 10 ppb
■ Zero Drift	< 25 ppb/24 hours
■ Span Drift	< 0.5% of reading/24 hours
■ Lag Time	10 seconds
■ Rise/Fall Time	< 60 seconds to 95%
■ Linearity	1% of full scale
■ Precision	0.5% of reading
■ Sample Flow Rate	800 cc/min \pm 20%
■ Power Requirements	100V-120V, 220V-240V, 50/60 Hz
■ Analog Output Ranges	10V, 5V, 1V, 0.1V (selectable)
■ Recorder Offset	\pm 10%
■ 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
■ Operating Temperature Range	5 - 40°C 10 - 40°C (with US EPA Equivalency)
■ Dimensions (HxWxD)	7" x 17" x 23.5" (178 x 432 x 597 mm)
■ Weight	50 lbs (22.7 kg)

* 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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