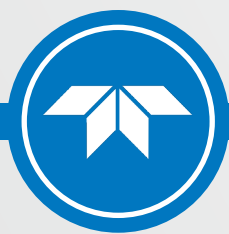


Model 9130T

Chemiluminescent NH₃ Analyzer



- User Selectable Ranges
- Multi-Tasking Software
- Self-Checking with Alarms
- External Converter
- Designed to Optimize Response Times
- Adaptive Filtering
- Temperature & Pressure Compensation
- Internal Data Logging

The Model 9130T is designed for the accurate measurement of trace levels of ammonia (NH₃), nitric oxide (NO), nitrogen dioxide (NO₂) and total nitrogen oxides (NO_x) in process gas streams, such as nitrogen (N₂), air and carbon dioxide (CO₂). Utilizing the proven chemiluminescence measurement principle with an external ammonia converter and optimized sample handling system, the analyzer provides reliable detection from 0-50 ppb to 0-2,000 ppb, with user-selectable ranges in ppb increments and automatic ranging capability.

Because ammonia readily absorbs onto sample system surfaces, achieving fast and accurate measurements at low concentrations can be challenging. The 9130T addresses these challenges through a specially engineered sample conditioning system, minimized internal surface area and carefully selected wetted materials to reduce ammonia losses and improve response time. The result is precise, stable and repeatable trace ammonia measurements for demanding process and gas quality applications.

Features

- 0-50 ppb to 0-2,000 ppb ranges, user selectable
- Microprocessor controlled
- Multi-tasking software allows viewing test variables while operating
- Continuous self-checking with warning alarms
- External converter
- Temperature and pressure compensation
- Designed to optimize response times
 - Minimal surface area in contact with sample
 - Low absorption wetted parts
 - Heated sample manifold
- Adaptive filtering optimizes response time
- Internal data logging with 1 minute to 24 hour averages





Ranges	Min: 0-50 ppb full scale Max: 0-2,000 ppb full scale* (selectable, independent NO, NO ₂ , NO _x , NH ₃ , TNX ranges) *Over-range to 2,500 ppb also available, consult factory.
Dual Ranges & Auto-Ranging Supported Units	ppb, ppm, µg/m ³ , mg/g ³ (user-selectable)
Zero Noise	< 0.5 ppb (RMS)
Span Noise	< 1% of reading (RMS) above 50 ppb
Lower Detectable Limit	1 ppb
Zero Drift	< 0.5 ppb/24 hours (NO, NO _x)
Span Drift	< 1% of full scale/24 hours
Response Time	< 340 seconds to 90% (NO)
Linearity	< 1% full scale
Precision	0.5% of reading above 50 ppb
Sample Flow Rate	1,000 cc/min ± 10%
Operating Temperature	15° to 40°C
Dimensions	Analyzer: 7"H x 17"W x 23.5"D (178 x 432 x 597 mm) 43 lbs (20 kg) Converter: 7"H x 17"W x 23.5"D (178 x 432 x 597 mm) 22 lbs (10 kg) External Pump: 22 lbs (10 kg)
Power	100V-120V, 220V-240V, 50/60 Hz, Typical power 125W Converter typical power 480W
Analog Outputs	4-20 mA current output on Channel 1 to 3
Included I/O	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
Recorder Offset	± 10%

** Oxygenator included as standard.

*** A dynamic calibrator is highly recommended (Model T700, N700 or equivalent) for calibration of the analyzer.
Contact factory for additional information



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