Model N802

O_2 Analyzer with Optional CO_2 Sensor



- Fast Response
- Optional CO_2 Sensor
- Customizable Alerts
- Wide Operating Temperature Range
- Optional Internal DC-Powered Pump
- All Digital Sensors

N Series Platform Features

- Color Touch-Screen Graphics Display
- Two Front Panel USB Ports
- Modular Internal Hardware Design
- All DC-powered Internal Components
- Large Internal Data Storage
- Serial and TCP/IP Ethernet Included
- Digital and Analog Expansion Options
- Indicator Illuminated Soft Power Switch
- Split Fold-Down Rear Panel

The Teledyne API Model N802 Paramagnetic Oxygen Analyzer is a microprocessor-controlled analyzer that determines the concentration of molecular oxygen (O_2) in a sample gas drawn through the instrument. It uses a paramagnetic sensor that relies on the relatively high reactivity of O_2 molecules to magnetic fields to generate a current that is proportional to the amount of O_2 present in the sensor chamber.

The N802 uses the proven paramagnetic measurement principle, combined with a state-of-the-art modular architecture, and intuitive operating software to provide accurate and dependable measurements of percent level O_2. The N802 offers a stable and inherently linear measurement of O_2, making it possible to calibrate the analyzer by checking only two points. There is no requirement for a reference gas during operation.

Instrument functions and controls are managed through a series of integrated microprocessor-controlled modules utilizing a simple and reliable CAN Bus communications architecture. Each module is independently assembled and calibrated allowing easy and fast field replacement to maximize uptime.

Intuitive operation and calibration of all N Series products is achieved through the NumaView™ Software interface. The graphical user interface (GUI) is customizable, giving the user fast and efficient access to instrument status, as well as measurement data and diagnostic parameters in either numeric or graphical form. NumaView™ Remote Software (included at no charge) provides the same virtual interface and complete instrument control, as well as access to the instrument's large internal data storage buffer from a remote PC or tablet.

	O_2 Sensor	Optional CO_2 Sensor
Measurement Units	%, ppm	
Response Time	< 60 seconds to 95%	
Ranges	Min: 0-1% full scale Max: 0-100% full scale (selectable)	Min: 0-1% full scale Max: 0-20% full scale
Sample Flow Rate	120 cc/min ± 20 cc/min	
Zero Noise	< 0.02% (RMS)	
Span Noise	< 0.05% of reading (RMS)	< 0.1% of reading (RMS)
Lower Detectable Limit	< 0.04%	
Linearity	< ± 0.1%	
Accuracy	< ± 0.1%	< ± (1.5% of range + 2% of reading)
Zero Drift	< ± 0.02% / 24 hours < ± 0.05% / 7 days	
Span Drift	< ± 0.1% / 7 days	
Included I/O	1 x Ethernet (TCP/IP) 1 x RS232 2 x front panel USB device ports	
Optional I/O	Universal Analog Output Board includes (all user-definable): 4 x Isolated voltage outputs (5V, 10V, user-selectable) 3 x Individually isolated current outputs (4-20 mA) Digital I/O Expansion Board includes: 3 x Isolated digital input controls 5 x Isolated digital output controls (user-definable) 3 x Form C relay alarm outputs (user-definable)	
Weight	Standard (no options): 23.5 lbs (10.7 kg) Standard (with pump option): 26.0 lbs (11.8 kg)	
Dimensions	7"H x 17"W x 24.3"D (178 x 432 x 617 mm)	
Operating Temperature	5° to 40°C	
Humidity Range	0-95% RH, non-condensing	
Pressure Range	25 - 31 in Hg	
Power	100 - 240V~, 50/60 Hz, 3.0A Typical Power Consumption: 35W (without pump option) 40W (with pump option)	
Certifications	CE Compliant	

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

All N Series instruments include a 2-year manufacturer's warranty as well as email and phone support for the lifetime of the instrument

TELEDYNE API
Everywhereyoulook™

9970 Carroll Canyon Road, San Diego, CA 92131
Phone: 858-657-9800 • Fax: 858-657-9816
Email: api-sales@teledyne.com

For more information on Teledyne API Instruments, visit our website at:

www.teledyne-api.com/en-us

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(DCN 8964) 05.16.2025

ISO 9001:2015 CERTIFICATION
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