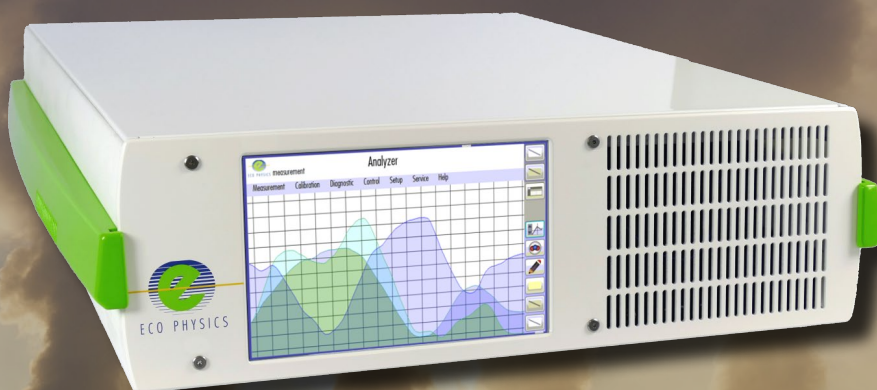




ECO PHYSICS nCLD 844 M

APPLICATION EXAMPLES

- Gas manufacturers
- Manufacturers of gas turbines
- Certification and calibration
- DeNOx plants
- Refining of fuels and lubricants
- Tobacco industry
- Research and development



The nCLD 844 M analyzer is the next generation in two-channel high precision nitrogen oxide measurement. Unique in speed and reliability, the nCLD 844 M is modular designed and capable of simultaneously measuring NO, NO_x and NO₂. The analyzers expandable capabilities allow assessment of hot and humid gas sources without additional cooler. It features a dual inlet option for evaluation of two different sources at once. The new and intuitive graphical user interface "GUI" also individually displays and connects to other instruments' data.

Convenient and Highly Precise

The nCLD 844 M dual channel NO, NO_x and NO₂ analyzer is designed for all applications with an existing gas preconditioning unit for ensuring quality control as well as keeping within threshold values. The optional hot tubing allows direct analysis of hot and moist sources without preconditioning unit and the optional electro-mechanical bypass system balances out pressure variations in the sample flow. Furthermore, the analyzer is adaptable to numerous non-standardized applications. Dual sample gas inlet is an option that allows measuring two different sources simultaneously, enabling comparison. Calibration and adjustment runs quick and automatically.

User Friendliness with "GUI"

The new touch sensitive graphical user interface "GUI" enables the user to individually adjust the instrument operation and data management according to his/her needs and applications. The bright 8" monitor gives a clear overview and allows numerical and graphical display of values. Multiple digital in- and outputs guarantee a maximal connectivity and flexibility for the remote operation, control and maintenance of the nCLD 844 M.

Compact, Modular and Intelligent!

The nCLD 844 M is manufactured in a new compact and modular layout, in which each essential component of the chemiluminescence analyzer hosts its own CPU and interacts with other CPUs by BUS-communication. This assembly increases accessibility and serviceability by reducing wiring and piping. The measurement principle conforms to the standard method for NO_x-detection in stationary source emissions (EN 14792).

- Compact and modular design
- Guided touchscreen operation
- Mobile DC operation
- Remote operation, control and maintenance
- Metal or steel converter for NO_x detection
- Four freely selectable measuring ranges

Graphical user interface "GUI" for individual analyzer operation and data management

Analyzer	
NO	483.05 ppm
NOx	495.10 ppm
NO2	12.05 ppm

Measurably better

SPECIFICATIONS

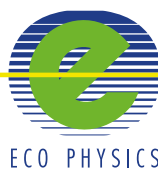
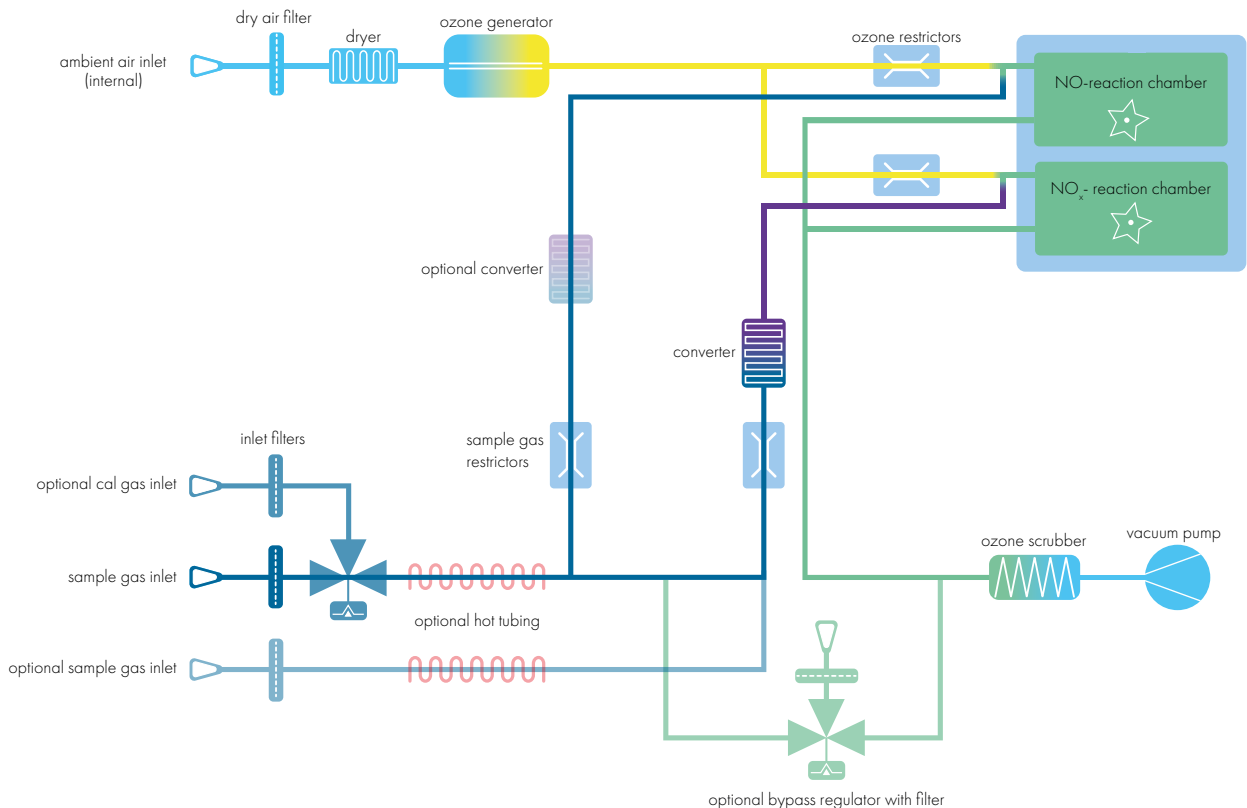
nCLD 844 M

Measuring ranges	four freely selectable ranges from 0.5 ppm - 500 ppm with dual sample inlet: two per channel	Supply voltage	100–230 V/50–60 Hz
Min. detectable concentration*	0.025 ppm	Interface	USB(2x), HDMI, Bluetooth, RS232 (w/o 9pin connector), LAN, WLAN
Noise at zero point (1 σ)*	0.0125 ppm	Dimensions	height: 133 mm (5¼ ") width: 450 mm (19 ") with molding: 495 mm depth: 540 mm (21.2 ")
Lag time	<1 sec	Weight	23 kg (51 lb)
Rise time (0–90%)	<1 sec	Delivery includes	nCLD 844 M analyzer, power cable, FTDI-RS232-USB cable, USB-LAN adapter, manual
Temperature range	5 - 40 °C	Standard	nCLD 844 M metal converter
Humidity tolerance	5 - 95% rel. h (non-condensing, ambient air and sample gas)	Options	· hot tubing · electro-mechanical pressure regulation · cal gas inlet · dual sample gas inlet · steel converter · dual channel NO _x /NO _x · USB-RS232 9pin connector · 0 - 10 V/4 - 20 mA into 500 Ω max.
Sample flow rate	0.3 l/min. (1.2 l/min with pressure regulation)	Analog output (External Box)	
Input pressure	ambient ext. stabilized within ± 3 mbar (600–1200 mbar abs. with pressure regulation)		
Dry air use for O ₃ generator	internally generated (no external supply gas required)		
Power required	400 VA (incl. membrane pump and ozone scrubber)		

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FLOW DIAGRAM

* depending on filter setting
ECO PHYSICS reserves the right to change these specifications without notice.



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