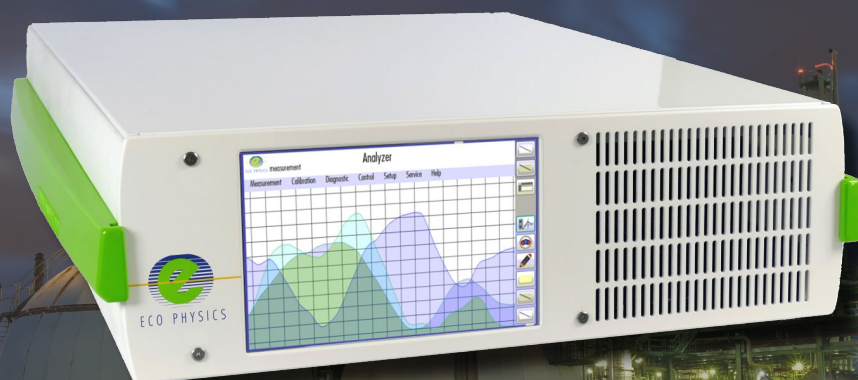




ECO PHYSICS nCLD 824 MMdr

APPLICATION EXAMPLES

- Catalyst testing
- Manufacturers of gas turbines
- Certification and calibration
- DeNOx plants
- Refining of fuels and lubricants
- Burners and Boilers
- Research and development



The nCLD 824 MMdr analyzer is the next generation in two-channel high precision nitrogen oxide measurement. Unique in speed and reliability, the nCLD 824 MMdr is modular designed and capable of simultaneously measuring NO_x from two different gas sources with pressure fluctuations. The new and intuitive graphical user interface "GUI" also individually displays and connects to other instruments' data.

Two Instead of One

The nCLD 824 MMdr includes everything that is needed for simultaneously measuring NO_x in two different gas samples. Dual sample gas inlet combined with two metal converters allows the user to measure two different sources simultaneously, enabling comparison of the samples. The integrated electro-mechanical bypass system balances out pressure variations occurring in the sample flow and the optionally available hot tubing enables the instrument to analyze hot and moist gas sources. Calibration and adjustment of the unit runs quick and automatically with all necessary data continuously stored and readily available anywhere and at any time.

User Friendliness with "GUI"

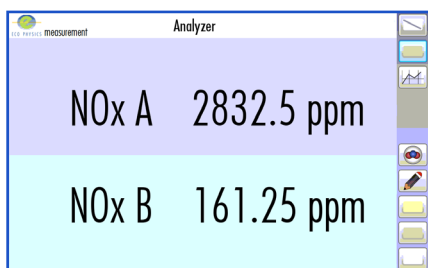
The new touch sensitive graphical user interface "GUI" enables the user to individually adjust the instrument operation and data management according to his/her needs and applications. The bright 8" monitor gives a clear overview and allows numerical and graphical display of values. Multiple digital in- and outputs guarantee a maximal connectivity for your remote operation, control and maintenance of the nCLD 824 MMdr, ensuring unsurpassed precision and reliability.

Compact, Modular and Intelligent!

The nCLD 824 MMdr 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).

- Rapid system integration and rack mounting
- Compact and modular design
- Virtually maintenance free even in continuous operation
- Four freely selectable measuring ranges (with dual inlet: two per channel)
- Choice between different types and numbers of converters

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



Measurably better

SPECIFICATIONS

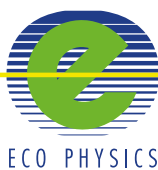
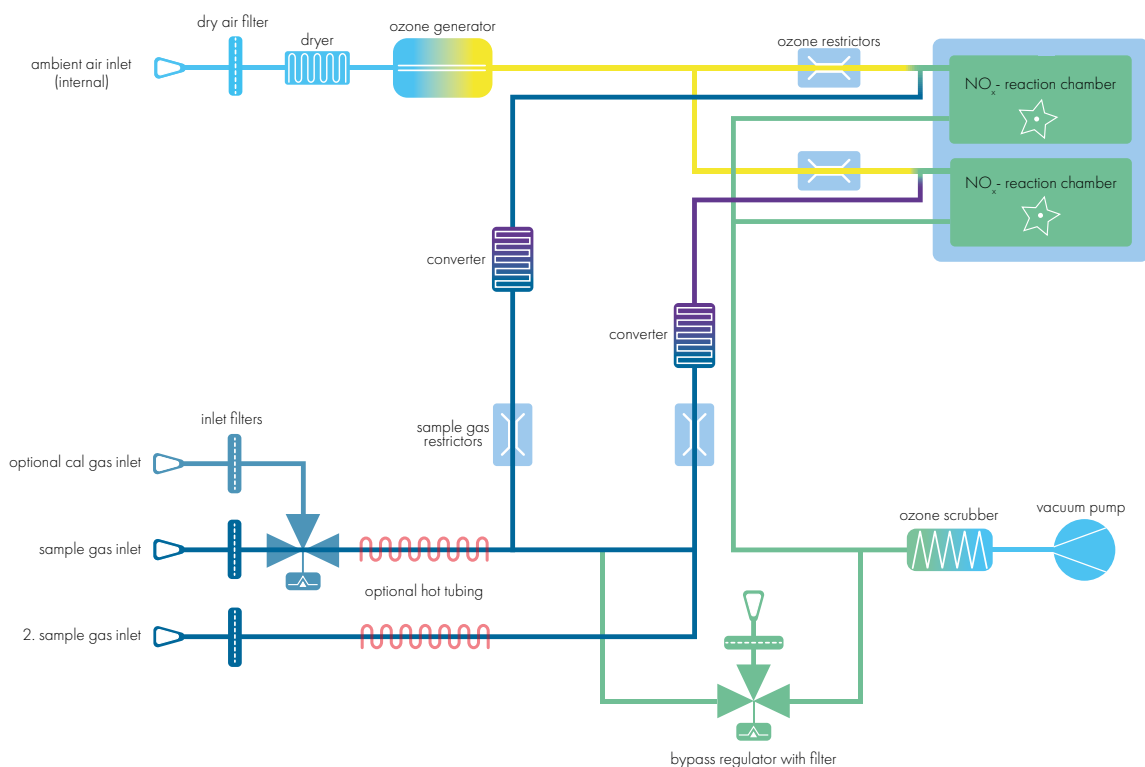
nCLD 824 MMdr

Measuring ranges	channel 1: two freely selectable ranges from 5 ppm - 5000 ppm channel 2: two freely selectable ranges from 0.5 ppm - 500 ppm	Power required	400 VA (incl. membrane pump and ozone scrubber)
Min. detectable concentration*	channel 1: 0.25 ppm channel 2: 0.025 ppm	Supply voltage	100-230 V/50-60 Hz
Noise at zero point (1σ)*	channel 1: 0.125 ppm channel 2: 0.0125 ppm	Interface	USB(2x), HDMI, Bluetooth, RS232 (w/o 9pin connector), LAN, WLAN
Lag time	<1 sec	Dimensions	height: 133 mm (5¼") width: 450 mm (19") with molding: 495 mm depth: 540 mm (21.2")
Rise time (0-90%)	<1 sec	Weight	23 kg (51 lb)
Temperature range	5 - 40 °C	Delivery includes	nCLD 824 MMdr analyzer, power cable, FTDI-RS232-USB cable, USB-LAN adapter, manual
Humidity tolerance	5 - 95% rel. h (non-condensing, ambient air and sample gas)	Standard	nCLD 824 MMdr dual channel NO _x /NO _x w/metal converters and electro-mechanical pressure regulation
Sample flow rate	1.2 l/min (0.1l/min without pressure regulation)	Options	· dual channel NO _x /NO _x w/steel converters · hot tubing · USB-RS232 9pin connector · 0 - 10 V/4 - 20 mA into 500 Ω max.
Input pressure	600-1200 mbar abs. (without pressure reg. to be externally stabilized within ± 3mbar)	Analog output (External Box)	
Dry air use for O ₃ generator	internally generated (no external supply gas required)		

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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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