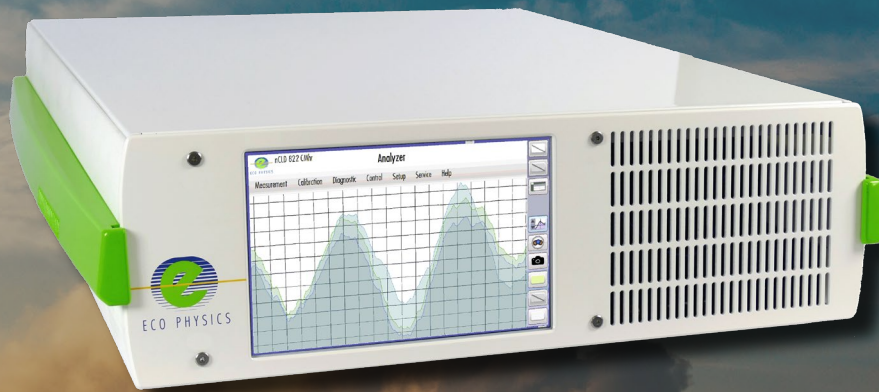




ECO PHYSICS nCLD 822 CMhr

APPLICATION EXAMPLES

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



The nCLD 822 CMhr analyzer is the next generation in high precision nitrogen oxide measurement. Unique in speed and reliability, the nCLD 822 CMhr is modular designed and capable of simultaneously measuring NO, NO₂, NO_x, NH₃ and NO_x-amines from hot and humid gas sources without additional cooler. It features a dual inlet option for assessing two different sources at once. The new and intuitive graphical user interface "GUI" also individually displays and connects to other instruments' data.

Straight From the Source

The nCLD 822 CMhr includes everything that is needed for measuring NO, NO₂, NO_x, NH₃ and NO_x-amines in unpreconditioned gas samples. The integrated hot tubing enables the instrument to analyze hot and moist sources and the electro-mechanical bypass system balances out pressure variations occurring in the sample flow. Furthermore, the analyzer is adaptable to numerous non-standardized applications. Dual sample gas inlet is an option that allows the user to measure two different sources simultaneously, enabling comparison of the samples. Calibration of the unit runs quick and automatically with all necessary data available anywhere and at any time.

User Friendliness with "GUI"

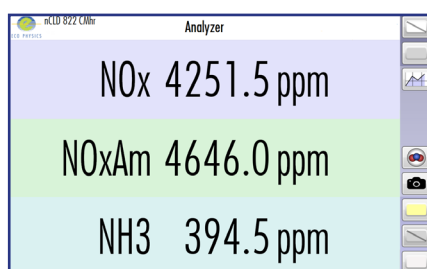
The new touch sensitive graphical user interface "GUI" enables the user to individually adjust the instrument operation and data management according to his/her needs and applications. The bright 8" monitor gives a clear overview and allows numerical and graphical display of values. Multiple digital in- and outputs guarantee a maximal connectivity for your remote operation, control and maintenance of the nCLD 822 CMhr, ensuring unsurpassed precision and reliability.

Compact, Modular and Intelligent!

The nCLD 822 CMhr 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 822 CMhr

Measuring ranges	four freely selectable ranges from 5–5000 ppm with option d two per channel	Supply voltage	100–230 V/50–60 Hz
Min. detectable concentration*	0.25 ppm	Interface	USB(2x), HDMI, Bluetooth, RS232 (w/o 9pin connector), LAN, WLAN
Noise at zero point (1σ)*	0.125 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 822 CMhr analyzer, power cable, FTDI-RS232-USB cable, USB-LAN adapter, manual
Temperature range	5 - 40 °C	Standard	nCLD 822 CMhr
Humidity tolerance	5 - 95% rel. h (non-condensing, ambient air and sample gas)	Options	· catalyst converter · metal converter · hot tubing · electro-mechanical pressure regulation
Sample flow rate	1.2 l/min	Standard	nCLD 822 CMhr
Dry air flow rate	230ml/min	Options	· 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.
Input pressure	600-1200 mbar abs.	Analog output (External Box)	
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.

