



ECO PHYSICS nCLD 822 CMh

APPLICATION EXAMPLES

- Burners and boilers
- Manufacturers of gas turbines
- Certification and calibration
- DeNOx Plants and SCR
- Refining of fuels and lubricants
- Assessment of ammonia slip
- Research and development



The nCLD 822 CMh analyzer is the next generation in high precision nitrogen oxide measurement. Unique in speed and reliability, the nCLD 822 CMh is modular designed and capable of sequentially measuring NO, NO₂, NO_x, NH₃ and NO_x-Amines from hot and humid gas sources without additional cooler. The new and intuitive graphical user interface also individually displays and connects to other instruments' data.

Measurement of:

- NO
- NO₂
- NO_x
- NH₃
- NO_x-Amines

Straight From the Source

The nCLD 822 CMh includes everything that is needed for measuring NO, NO₂, NO_x, NH₃ and NO_x-Amines in unpreconditioned gas samples. The fully revised detector-block, the enhanced gas flow paths and the improved pressure as well as temperature independence of the nCLD 800 Series instruments allow for even lower detection limits. The integrated hot tubing enables the instrument to analyze hot and moist sources and the optional electro-mechanical bypass system balances out pressure variations occurring in the sample flow. Furthermore, the analyzer is adaptable to numerous non-standardized applications. Calibration of the unit runs quickly and automatically.

User Friendliness

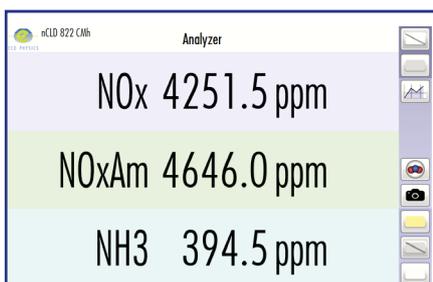
The new touch sensitive graphical user interface enables the user to individually adjust the instrument operation and data management according to his/ her needs and applications. The bright 7" monitor gives a clear overview and allows numerical and graphical display of values. Multiple digital in- and outputs guarantee a maximal connectivity for your remote operation, control and maintenance of the nCLD 822 CMh, ensuring unsurpassed precision and reliability.

Compact, Modular and Intelligent!

The nCLD 822 CMh 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 will conform to the standard method for NO_x-detection in stationary source emissions (EN 15267).

- Rapid system integration and rack mounting
- Compact and modular design
- Virtually maintenance free even in continuous operation
- Four freely selectable measuring ranges

Graphical user interface for individual analyzer operation and data management



Measurably better

SPECIFICATIONS

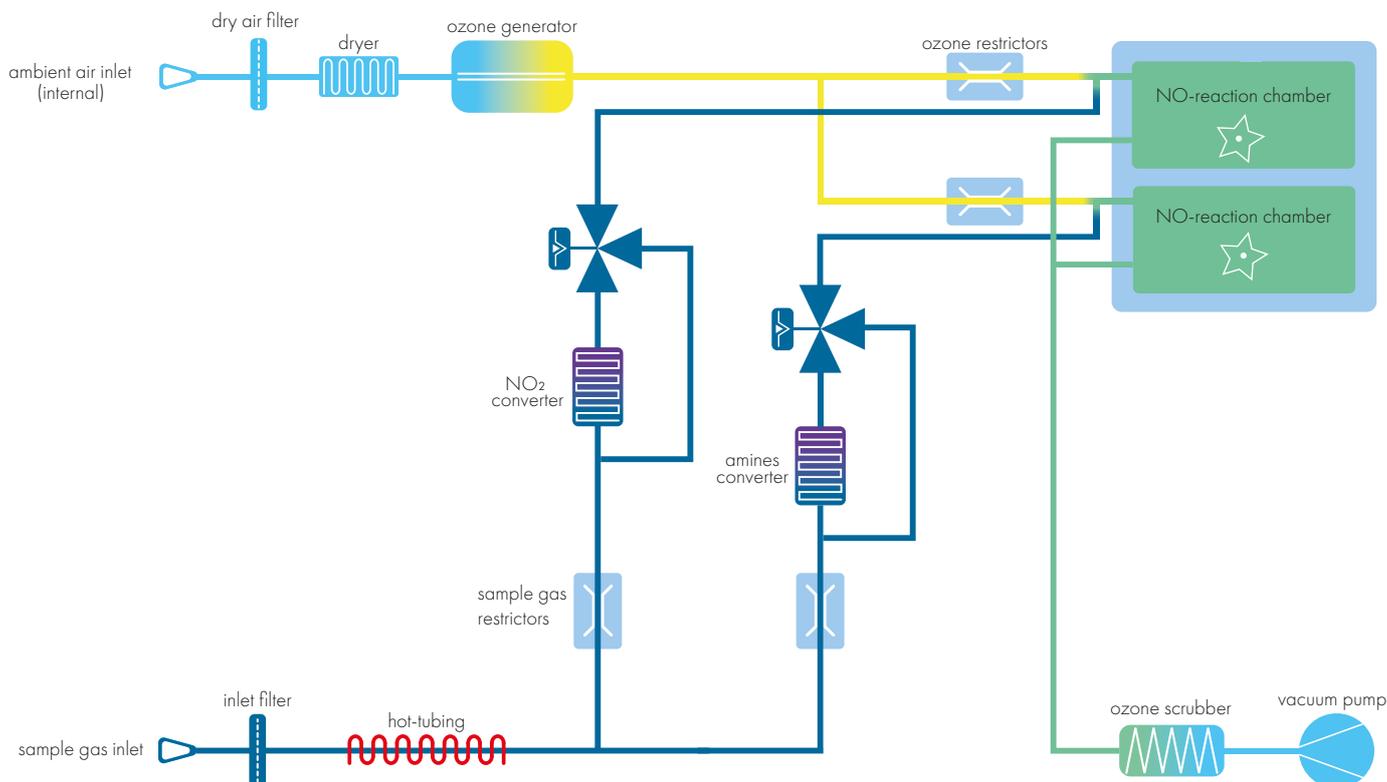
nCLD 822 CMh

Analyzer type	dual chamber CLD with cooled PMT for measurement of NO, NO ₂ , NO _x , NH ₃ and NO _x -Amines	Power required	350 VA (incl. membrane pump and ozone scrubber)
Measuring ranges	four freely selectable ranges from 5 - 5'000 ppm	Supply voltage	100 - 240 V/50 - 60 Hz
Min. detectable concentration*	0.12 ppm	Interface	USB(3x), HDMI, Bluetooth, RS232 (w/o 9pin connector), LAN, WLAN
Noise at zero point (1σ)*	0.06 ppm	Dimensions	height: 133 mm (5 1/4 ") width: 450 mm (19 ") with molding: 495 mm depth: 540 mm (21.2 ")
Lag time	<3 sec	Weight	23 kg (51 lb)
Rise time (0 - 90%)	<1 sec	Delivery includes	nCLD 822 CMh analyzer, power cable, FTDI-RS232-USB cable, USB-LAN adapter, HDMI adapter
Temperature range	5 - 40 °C	Standard	nCLD 822 CMh <ul style="list-style-type: none"> · C - catalyst converter · M - metal converter · h - hot tubing
Humidity tolerance	5 - 95% rel. h (non-condensing, ambient air and sample gas)	Options	<ul style="list-style-type: none"> · V1 - single calibration valve · V2 - two calibration valves for pressurized calibration (zero & span / 2-3 bar) · r - electro-mechanical pressure regulation · USB-RS232 9pin connector · 0 - 10 V · 4 - 20 mA into 500 Ω max.
Sample flow rate	1.0 l/min	Analog output (External Box)	
Input pressure	600 - 1'200 mbar abs.		
Dry air use for O₃ generator	internally generated (no external supply gas required)		

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FLOW DIAGRAM

*Depending on filter setting
Connectivity properties are country-specific
ECO PHYSICS reserves the right to change these specifications without notice.



ECO PHYSICS

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