

Measurement of:

- NO
- NO₂
- NO_v
- NH₂
- NO_x-Amines

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

Straight From the Source

The nCLD 822 CMhr includes everything that is needed for measuring NO, NO_{2} , NO_{X} , NH_{3} 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 electromechanical 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.

NOx 4251.5 ppm

NOxAm 4646.0 ppm

NH3 394.5 ppm

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 will conform to the standard method for NO_X-detection in stationary source emissions (EN 15267).

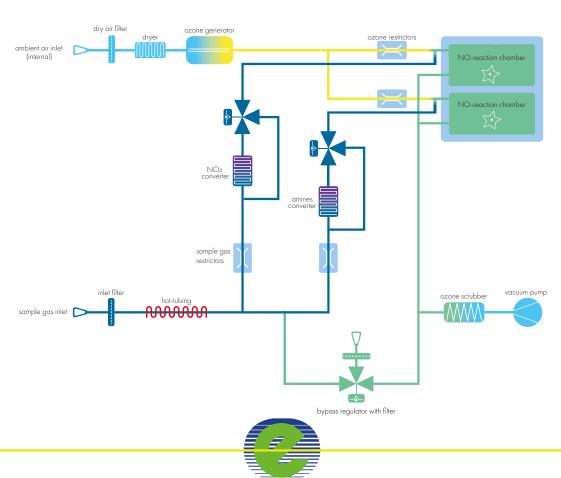
- Rapid system integration and rack mounting
- Compact and modular design
- Virtually maintenance free even in continuous operation
- Four freely selectable measuring ranges

Analyzer type	dual chamber CLD with cooled PMT for measurement of NO, NO $_{2'}$ NO $_{\chi'}$ NH $_3$ and NO $_{\chi}$ -Amines
Measuring ranges	four freely selectable ranges from 5 - 5'000 ppm
Min. detectable concentration*	0.12 ppm
Noise at zero point $(1\sigma)^*$	0.06 ppm
Lag time	<3 sec
Rise time (0 - 90%)	<1 sec
Temperature range	5 - 40 °C
Humidity tolerance	5 - 95% rel. h (non-condensing, ambient air and sample gas)
Sample flow rate	1.0 l/min
Input pressure	600 -1'200 mbar abs.
Dry air use for O_3 generator	internally generated (no external supply gas required)

Power required		350 VA (incl. membrane pump and ozone scrubber)
Supply voltage		100 - 240 V/50 - 60 Hz
Interface		USB(3x), HDMI, Bluetooth, RS232 (w/o 9pin connector), LAN, WLAN
Dimensions		height: 133 mm (51/4 ") width: 450 mm (19 ") with molding: 495 mm depth: 540 mm (21.2 ")
Weight		23 kg (51 lb)
Delivery incl	udes	nCLD 822 CMhr analyzer, power cable, FTDI-RS232-USB cable, USB-LAN adapter, HDMI adapter
Standard	nCLD 822 CMhr	• C - catalyst converter • M - metal converter • h - hot tubing • r - electro-mechanical pressure regulation
Options	Analog output (External Box)	 USB-RS232 9pin connector 0 - 10 V 4 - 20 mA into 500 Ω max.

FLOW DIAGRAM

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



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