ECO PHYSICS nCLD 822 M

ECO PHYSICS

nCLD - A New Generation

The nCLD 822 M includes everything for

measurement of NO, NO₂ and NO_y. 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. Overall

stability and reliability are lifted to a new

level. The optional electro-mechanical

bypass system balances out even fastest pressure variations occurring in the

sample flow. Furthermore, the analyzer is adaptable to numerous non-standardized

applications. The calibration of the unit

runs quickly and automatically, with all

necessary data available anywhere and

at any time.





- Manufacturers of gas turbines
- Certification and calibration
- DeNOx plants
- Stack gas measurement
- Petrol industry
- Research and development

The nCLD 822 M analyzer is the next generation in two-channel high precision nitrogen oxide measurement. Unique in speed and reliability, the nCLD 822 M is modular designed and capable of simultaneously measuring NO, NO₂ and NO_x. The analyzer's expandable capabilities allow assessment of 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

Graphical user interface for individual analyzer operation and data management

- rs measurement	System Operator	
NO	2321.5 ppm	<u> </u>
NOx	2487.5 ppm	
N02	166.0 ppm	

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 applications. needs and Multiple digital in- and outputs guarantee a maximal connectivity for your remote operation, control and maintenance of the nCLD 822 M, ensuring unsurpassed precision and reliability while all necessary data is readily available anywhere and at any time.

Compact, Modular and Intelligent!

The nCLD 822 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 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

Measurably better

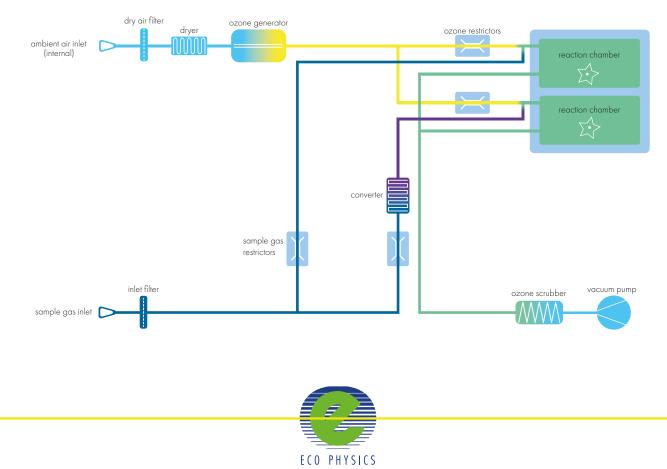
SPECIFICATIONS

Analyzer type	dual chamber CLD with cooled PMT for measurement of NO, NO $_{\rm 2}$ and NO $_{\rm X}$
Measuring ranges	four freely selectable ranges from 5 ppm - 5'000 ppm
Min. detectable concentration*	0.12 ppm
Noise at zero point (1 σ)*	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 $O_{\rm 3}$ 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 (5¼ ") width: 450 mm (19 ") with molding: 495 mm depth: 540 mm (21.2 ")
Weight		23 kg (51 lb)
Delivery include	25	nCLD 822 M analyzer, power cable, FTDI-RS232-USB cable, USB-LAN adapter, HDMI adapter
Standard	nCLD 822 M	$\cdot \mathbf{M}$ - metal converter
Options	Analog output (External Box)	 V1 - single calibration valve V2 - two calibration valves for pressurized calibration (zero & span / 2-3 bar) h - hot tubing r - electro-mechanical pressure regulation 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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