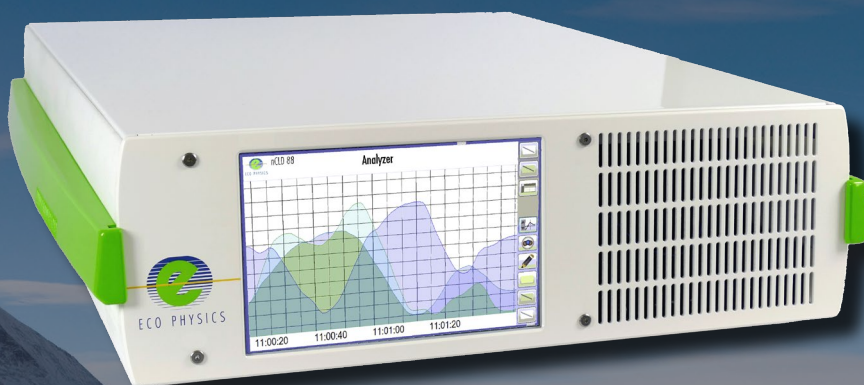




ECO PHYSICS nCLD 88

APPLICATION EXAMPLES

- Ambient air monitoring
- Clean room monitoring
- Surveillance of chem. processes
- Surveillance of R&D processes
- Biomed. and pharma research
- Plant physiological research
- Certification and calibration



The nCLD 88 is the next generation in measuring smallest amounts of NO or NO_x. Unique in speed and precision, the nCLD 88 is modular designed and allows the measurement of concentrations even in the range of parts per trillion. The analyzers expandable capabilities allow assessment of additional nitrogen oxide based parameters. Its new and intuitive user interface "GUI" also individually displays and connects to other instruments' data.

Precise and Reliable

The nCLD 88 fulfills the requirements of many research groups specializing in detection and monitoring smallest quantities of NO or NO_x with less than a second response time and lag time, despite its total sample flow. NO_x is measured by an optional molybdenum converter. Unwanted effects of long sampling lines are minimized by the electronic and mechanical bypass system. The optional pre chamber minimizes zero drift and cross sensitivity. This makes the analyzer ideally suited for areas with excellent air quality. Calibration and adjustment of the unit runs quick and automatic with all necessary data continuously stored and available anywhere and at any time.

User Friendliness with "GUI"

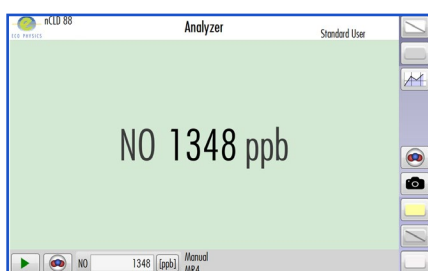
The new touch sensitive graphical user interface "GUI" enables the user to individually adjust the instrument operation and data management according to his/her needs and applications. The bright 8" monitor gives a clear overview and allows numerical and graphical display of values. Multiple digital in- and outputs guarantee a maximal connectivity and flexibility for the remote operation, control and maintenance of the nCLD 88, ensuring unsurpassed precision and reliability.

Compact, Modular and Intelligent!

The nCLD 88 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 ambient air (EN 14211).

- Compact design without additional space required
- Optional molybdenum converter for NO_x detection
- Four freely selectable measuring ranges
- Rapid system integration
- Optional bypass system to increase sample flow

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



Measurably better

SPECIFICATIONS

nCLD 88

Measuring ranges	four freely selectable ranges from 5–5000 ppb	Supply voltage	100–230 V/50–60 Hz
Min. detectable concentration*	0.05 ppb	Interface	USB(2x), HDMI, Bluetooth, RS232 (w/o 9pin connector), LAN, WLAN
Noise at zero point (1σ)*	0.025 ppb	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 88 analyzer, power cable, FTDI-RS232-USB cable, USB-LAN adapter, manual
Temperature range	5 - 40 °C	Standard	nCLD 88 NO analyzer
Humidity tolerance	5 - 95% rel. h (non-condensing, ambient air and sample gas)	Options	<ul style="list-style-type: none"> · molybdenum converter · heated sample inlet · photolytic converter · pre chamber · electro-mechanical pressure regulation · USB-RS232 9pin connector · 0 - 10 V/4 - 20 mA into 500 Ωmax.
Sample flow rate	0.3 l/min	Analog output (External Box)	
Input pressure	ambient pressure to be externally stabilized within ±3mbar		
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.

