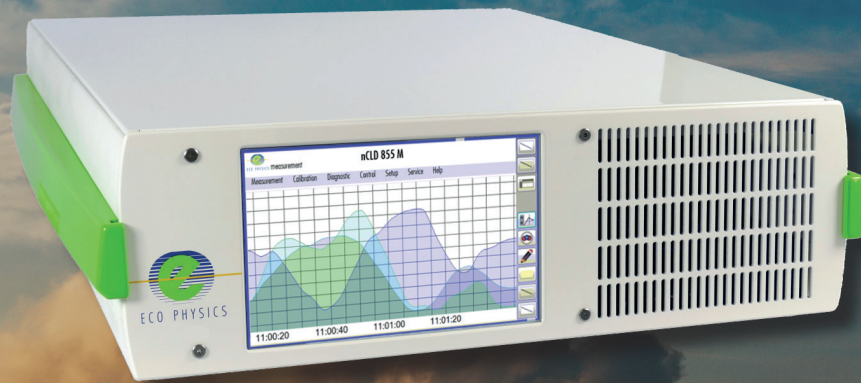




ECO PHYSICS nCLD 82 S

APPLICATION EXAMPLES

- CEMS
- DeNO_x plants
- Boilers and burners
- Certification and calibration
- Research and development
- Gas turbine manufacturers



The nCLD 82 S analyzer is the next generation in one-channel high precision nitrogen oxide measurement. Unique in speed and reliability, the nCLD 82 S is modular designed and capable of measuring NO/NO_x. The analyzer's expandable capabilities allow assessment of hot and humid gas sources without additional cooler. It features a dual inlet option for evaluation of two sources at once. The new and intuitive graphical user interface "GUI" also individually displays and connects to other instruments' data.

Convenient and Highly Precise

The nCLD 82 S single channel NO/NO_x analyzer is designed for all applications with heavily polluted gasses to ensure quality control as well as keeping within threshold values. The design is strikingly compact. All components, even the vacuum pump and the thermal ozone scrubber, are contained in one single unit. Despite its convenient construction, the nCLD 82 S fulfills all requirements of the ECO PHYSICS standard. The instrument includes a temperature stabilized photo multiplier and a high-performance ozone generator. Maintenance of the analyzer is easy and economical. Furthermore, the analyzer is optionally upgradeable to assess additional parameters.

User Friendliness with "GUI"

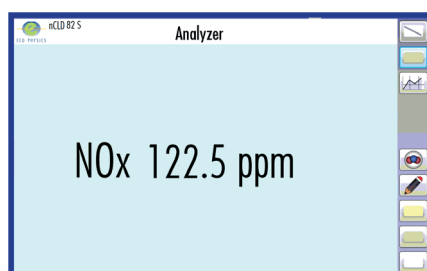
The new and intuitive touch sensitive graphical user interface "GUI" enables the user to individually adjust the instrument operation and data management according to his/her needs and applications. The bright 8" monitor gives a clear overview and allows numerical and graphical display of values. Multiple digital in- and outputs guarantee a maximal connectivity and flexibility for the remote operation, control and maintenance of the nCLD 82 S.

Compact, Modular and Intelligent!

The nCLD 82 S 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

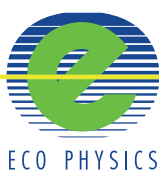
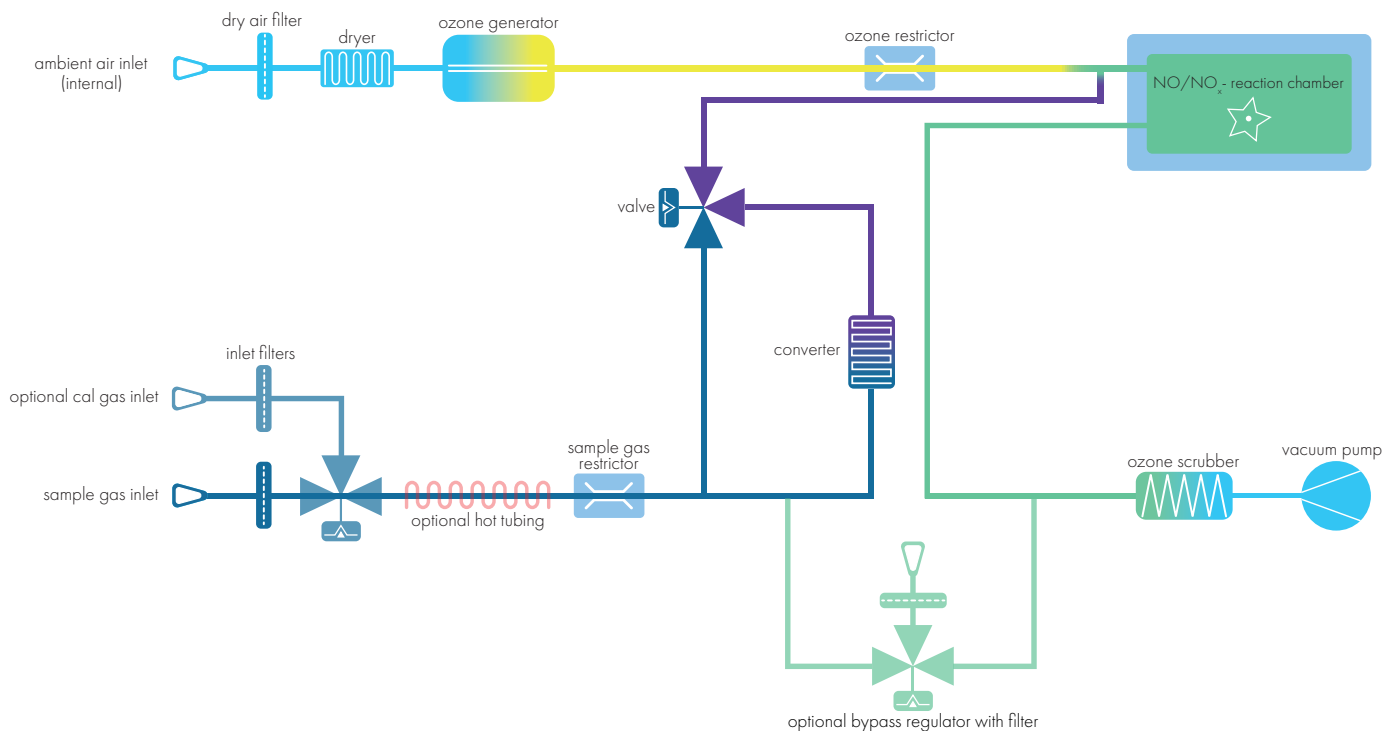
nCLD 82 S

Measuring ranges	four freely selectable ranges from 5 ppm – 5000 ppm with dual sample inlet: 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 (1 σ)*	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 82 S analyzer, power cable, FTDI-RS232-USB cable, USB-LAN adapter, manual
Temperature range	5-40 °C	Standard	nCLD 82 S steel converter
Humidity tolerance	5-95% rel. h (non-condensing, ambient air and sample gas)	Options	· hot tubing · electro-mechanical pressure regulation · dual sample gas inlet · metal converter · dual channel NO _x /NO _x · USB-RS232 9pin connector · 0 - 10 V/4 - 20 mA into 500 Ω max.
Sample flow rate	0.3 l/min. (1.2 l/min with pressure regulation)	Analog output (External Box)	
Input pressure	ambient ext. stabilized within ± 3 mbar (600–1200 mbar abs. with pressure regulation)		
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.



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