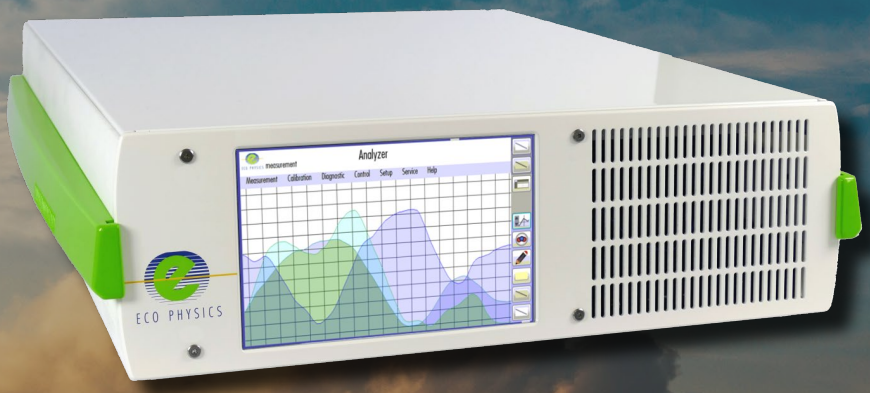
ECO PHYSICS nCLD 82 Mh



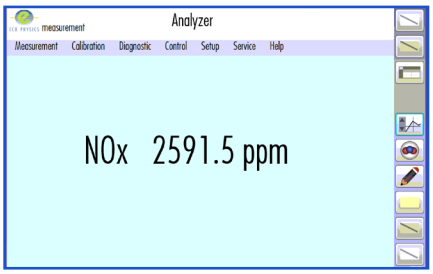
APPLICATION EXAMPLES

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

The nCLD 82 Mh analyzer is the next generation in high precision single channel nitrogen oxide measurement. Unique in speed and reliability, the nCLD 82 Mh is modular designed and capable of measuring NO_x from hot and humid gas sources without additional cooler. Furthermore, the nCLD 82 Mh is expandable to other nitrogen oxide based parameters. The new and intuitive graphical user interface "GUI" also individually displays and connects to other instruments' data.

Straight From the Source

The nCLD 82 Mh includes everything that is needed for measuring NO_x in unpreconditioned gas samples. 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. Dual sample gas inlet is an option that allows the user to measure two sources in parallel, enabling comparison of the samples. Calibration and adjustment of the unit runs quick and automatically, while all necessary data is continuously stored and available anywhere and at any time.



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

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 Mh.

Compact, Modular and Intelligent!

The nCLD 82 Mh 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

SPECIFICATIONS

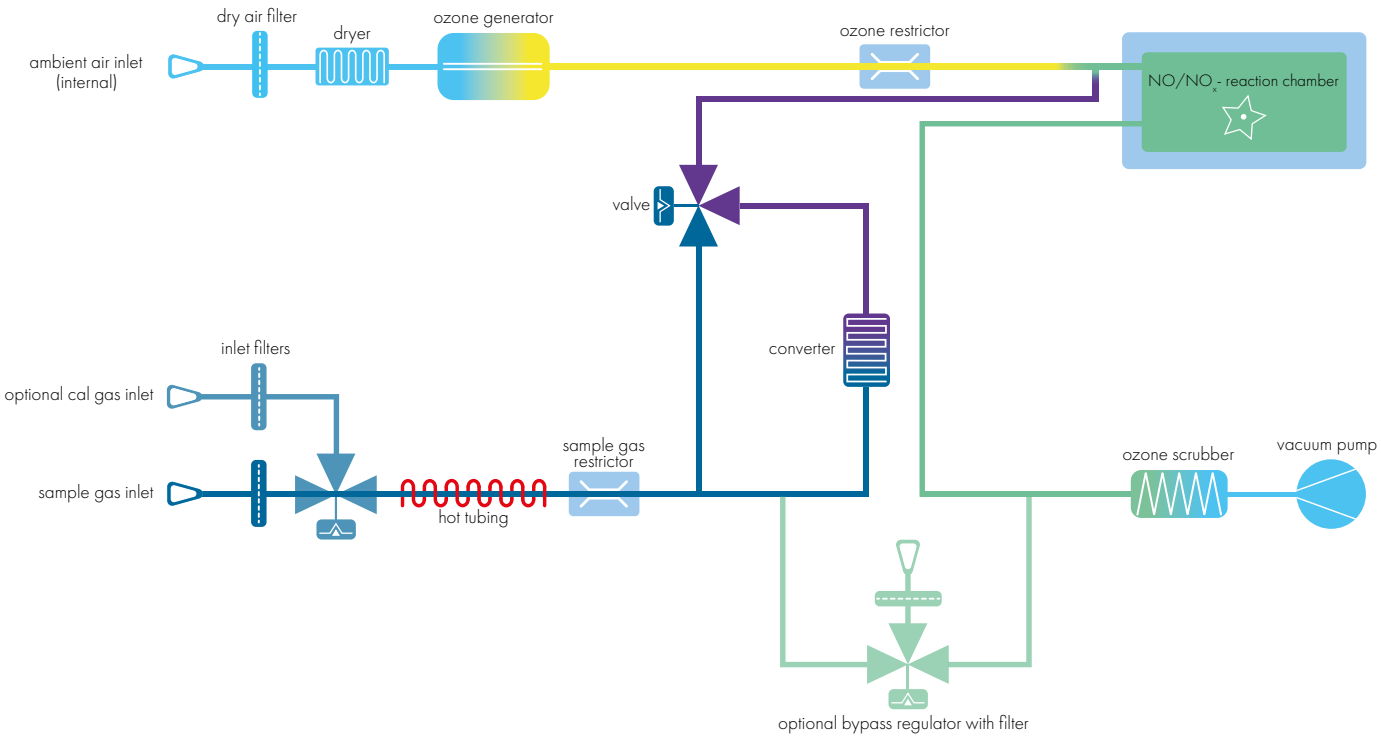
nCLD 82 Mh

Measuring ranges	four freely selectable ranges from 5 ppm – 5000 ppm with dual sample inlet: two per channel
*Min. detectable concentration**	0.25 ppm
*Noise at zero point (1σ)**	0.125 ppm
Lag time	<1 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	0.3 l/min. (1.2 l/min with pressure regulation)
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)

Supply voltage		100–230 V/50–60 Hz
Interface		USB(2x), 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 includes		nCLD 82 Mh analyzer, power cable, FTDI-RS232-USB cable, USB-LAN adapter, manual
Standard	nCLD 82 Mh	metal converter, hot tubing
Options		· electro-mechanical pressure regulation · dual sample gas inlet · steel converter · dual channel NO_x/NO_x · USB-RS232 9pin connector
	Analog output (External Box)	· 0 - 10 V/4 - 20 mA into 500 Ωmax.

** depending on filter setting*
ECO PHYSICS reserves the right to change these specifications without notice.

FLOW DIAGRAM



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