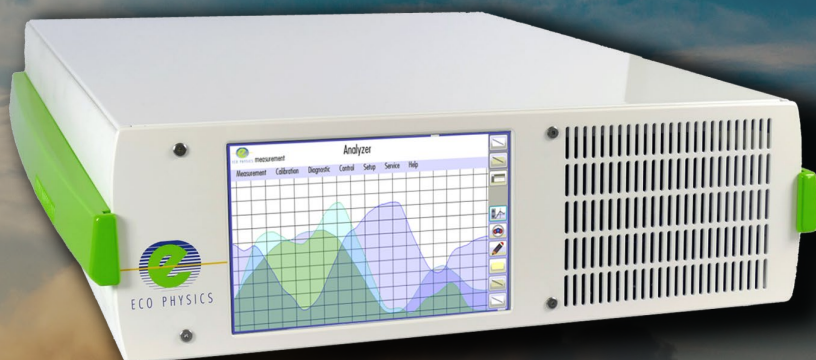




ECO PHYSICS nCLD 822 Mr



APPLICATION EXAMPLES

Gas manufacturers
Manufacturers of gas turbines
Certification and calibration
DeNOx plants
Refining of fuels and lubricants
Tobacco industry
Research and development

The nCLD 822 Mr analyzer is the next generation in high precision two-channel nitrogen oxide measurement. Unique in speed and reliability, the nCLD 822 Mr is modular designed and capable of simultaneously measuring NO, NO_x and NO₂ from sources with pressure variations. It features a dual inlet option for simultaneously assessing two different sources and can be equipped with hot tubing. The new and intuitive graphical user interface "GUI" also individually displays and connects to other instruments' data.

Versatile and Adaptable

The nCLD 822 Mr includes everything that is needed for measuring NO, NO_x and NO₂ in samples with pressure variations. The integrated electro-mechanical bypass system balances out pressure variations occurring in the sample flow, enabling highly precise analysis. Furthermore, the analyzer is adaptable to numerous non-standardized applications. The optionally available hot tubing enables the instrument to measure hot and moist sources. Dual sample gas inlet is an option that allows the user to measure two different 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.

User Friendliness with "GUI"

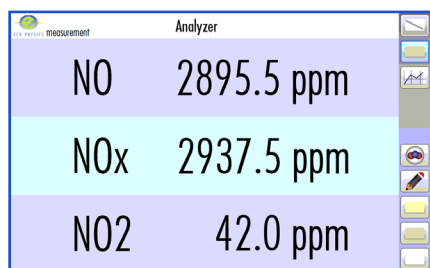
The new and intuitive touch sensitive graphical user interface "GUI" enables the user to individually adjust the instrument operation and data management according to his/her needs and applications. The bright 8" monitor gives a clear overview and allows numerical and graphical display of values. Multiple digital in- and outputs guarantee a maximal connectivity and flexibility for the remote operation, control and maintenance of the nCLD 822 Mr.

Compact, Modular and Intelligent!

The nCLD 822 Mr 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

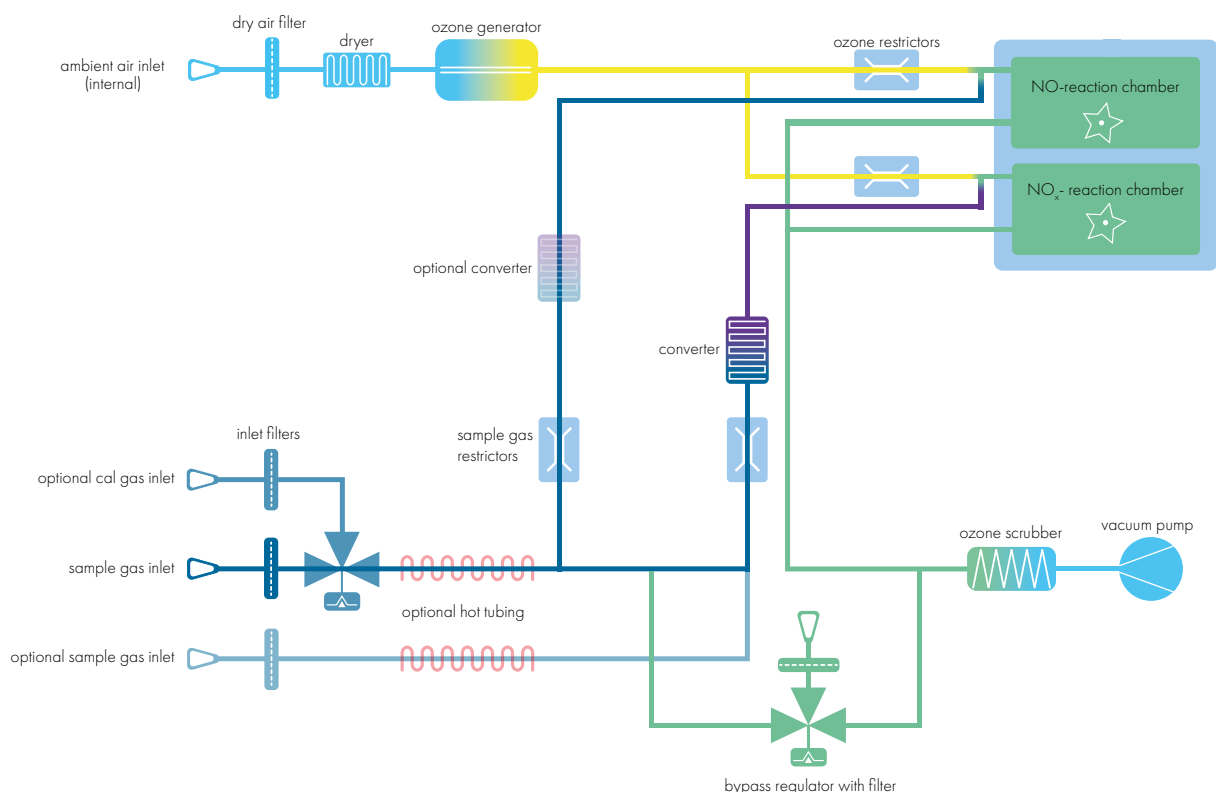
nCLD 822 Mr

| | | | |
|--|---|---------------------------------|---|
| Measuring ranges | four freely selectable ranges from 5 ppm - 5000 ppm with option d 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 (1σ)* | 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 822 Mr analyzer, power cable, FTDI-RS232-USB cable, USB-LAN adapter, manual |
| Temperature range | 5 - 40 °C | Standard | nCLD 822 Mr metal converter electro-mechanical pressure regulation |
| Humidity tolerance | 5 - 95% rel. h (non-condensing, ambient air and sample gas) | Options | · hot tubing · dual sample gas inlet · steel converter · dual channel NO _x /NO _x · USB-RS232 9pin connector · 0 - 10 V/4 - 20 mA into 500 Ω max. |
| Sample flow rate | 1.2 l/min (0.1l/min without pressure regulation) | Analog output (External Box) | |
| Input pressure | 600-1200 mbar abs. (without pressure reg. 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) | | |

© ECO PHYSICS AG, Switzerland 2018-1/11

FLOW DIAGRAM

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



flow822Mr.pdf

