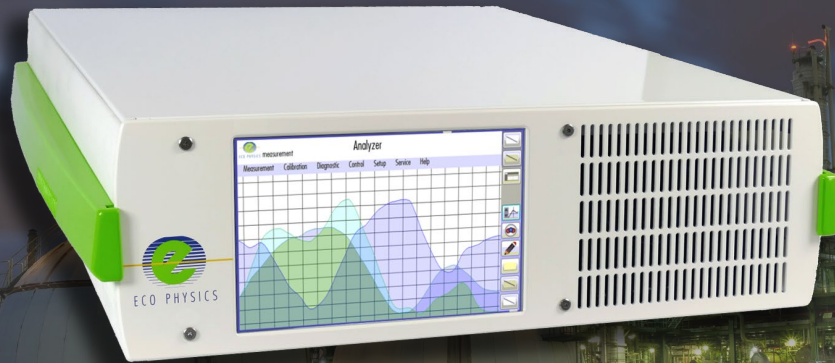




# ECO PHYSICS nCLD 855 Y

## APPLICATION EXAMPLES

- Gas manufacturers
- Manufacturers of gas turbines
- Certification and calibration
- DeNO<sub>x</sub> plants
- Refining of fuels and lubricants
- Tobacco industry
- Research and development



The nCLD 855 Y analyzer is the next generation in two-channel high precision nitrogen oxide measurement. Unique in speed and reliability, the nCLD 855 Y is modular designed and capable of simultaneously measuring NO, NO<sub>x</sub> and NO<sub>2</sub>. 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 different 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 855 Y dual channel NO, NO<sub>x</sub> and NO<sub>2</sub> analyzer is designed for all applications with an existing gas preconditioning unit for ensuring quality control as well as keeping within threshold values. The optional hot tubing enables the instrument to directly analyze hot and moist sources without preconditioning unit 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 measuring two different sources simultaneously, enabling comparison of the samples. Calibration is quick and easy.

### User Friendliness with "GUI"

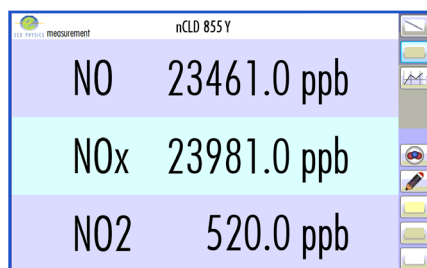
The new touch sensitive graphical user interface "GUI" enables the user to individually adjust the instrument operation and data management according to his/her needs and applications. Multiple digital in- and outputs guarantee a maximal connectivity for your remote operation, control and maintenance of the nCLD 855 Y, with all necessary data available anywhere and at any time, ensuring unsurpassed precision and reliability.

### Compact, Modular and Intelligent!

The nCLD 855 Y 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<sub>x</sub>-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

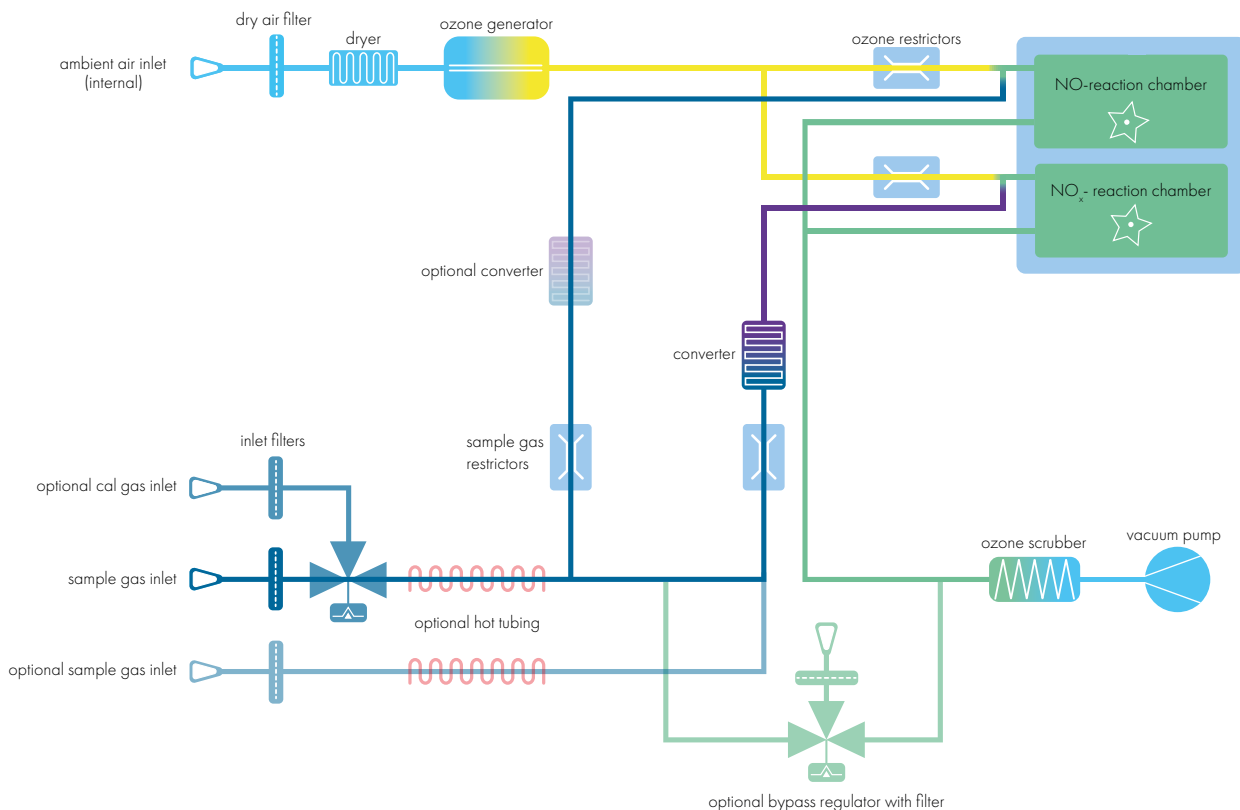
# nCLD 855 Y

Measuring ranges	four freely selectable ranges from 100 ppb - 50'000 ppb with dual sample inlet: two per channel	Supply voltage	100-230 V/50-60 Hz
Min. detectable concentration*	0.4 ppb	Interface	USB(2x), HDMI, Bluetooth, RS232 (w/o 9 pin connector), LAN, WLAN
Noise at zero point (1 $\sigma$ )*	<1 ppb	Dimensions	height: 133 mm (5 1/4 ") 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%)	<3 sec (with disconnected filter)	Delivery includes	nCLD 855 Y analyzer, power cable, FTDI-RS232-USB cable, USB-LAN adapter, manual
Temperature range	5 - 40 °C	Standard	nCLD 855 Y molybdenum converter
Humidity tolerance	5 - 95% rel. h (non-condensing, ambient air and sample gas)	Options	· hot tubing · electro-mechanical pressure regulation · cal gas inlet · dual sample gas inlet · steel converter · metal converter · dual channel NO <sub>x</sub> /NO <sub>y</sub> · USB-RS232 9 pin connector · 0 - 10 V/4 - 20 mA into 500 $\Omega$ 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 $\pm 3$ mbar (600-1200 mbar abs. with pressure regulation)		
Dry air use for O <sub>3</sub> generator	internally generated (no external supply gas required)		
Power required	400 VA (incl. membrane pump and ozone scrubber)		

© ECO PHYSICS AG, Switzerland 2018-1/12

# FLOW DIAGRAM

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



ECO PHYSICS