

Measurement of:

- NO
- NO,
- NO_X

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

Convenient and Highly Precise

The nCLD 899 Y fulfills the requirements of many research groups specializing in detection and monitoring smallest variations of N-containing compounds, such as NO, NO, and NO,. The lag time depends on the settings of the pre chambers, that reduce zero drift and cross sensitivity. It can be reduced to an absolute minimum. The fully revised detector-block, the enhanced gas flow paths and the improved pressure as well as temperature independence of the nCLD Series lift overall stability and reliability to a new level. Calibration and adjustment of the unit runs quick and automatic with all necessary data, including calibration history and status reports, stored continuously.

nCLD 899 Y	nCLD 899 Y	System Operator	
NO	223.32	ppb	<u></u>
NOx	243.82	ppb	
NO2	20.50	ppb	

User Friendliness

The new touch sensitive graphical user interface enables the user to individually adjust the instrument operation and data management according to his/her needs and applications. The bright 7" 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 899 Y, ensuring unsurpassed precision and reliability.

Compact, Modular and Intelligent!

The nCLD 899 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 will conform to the standard method for NO_x -detection in ambient air (EN 14211).

- Four freely adaptable measurement ranges
- Remote operation, control and maintenance
- Pre chamber to offset cross sensitivity
- Expandable to CraNOx II

Analyzer type	dual chamber CLD with cooled PMT for measurement of NO, $\mathrm{NO_2}$ and $\mathrm{NO_X}$
Measuring ranges	four freely selectable ranges from 1 ppb - 1000 ppb
Min. detectable concentration*	<0.025 ppb
Noise at zero point $(1\sigma)^*$	<0.01 ppb
Lag time	<3 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	1.0 l/min
Input pressure	600 - 1200 mbar abs.
O_2 use for O_3 generator	100 ml/min , pressurized 2-3 bar
Power required	650 VA (incl. membrane pump and ozone scrubber)

Supply voltage		100 - 240 V/50 - 60 Hz
Interface		USB(3x), HDMI, Bluetooth, RS232 (w/o 9pin connector), LAN, WLAN
Dimensions		height: 178 mm width: 450 mm with molding: 495 mm depth: 540 mm
Weight		42 kg
Delivery includ	es	nCLD 899 Y analyzer, power cable, FTDI-RS232-USB cable, USB-LAN adapter, HDMI adapter
Standard	nCLD 899 Y	· Y - molybdenum converter · p - pre chambers · V2 - two calibration valves for pressurized calibration (zero & span / 2-3 bar)
Options	Analog output (External Box)	· USB-RS232 9pin connector · 0 - 10 V 4 - 20 mA into 500 Ω max.

FLOW DIAGRAM

*Depending on filter setting Connectivity properties are country-specific ECO PHYSICS reserves the right to change these specifications without notice.



