

## **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<sub>v</sub> and NO<sub>2</sub>. The analyzer is especially designed to include high altitude application. The lag time depends on the settings of the pre chambers and can be reduced to seconds. Calibration and adjustment of the unit runs quick and automatic. All Data, including cal. history, instrument status and warning conditions is continuously stored. The pre chambers minimize zero drift and cross sensitivity. For specific NO<sub>2</sub> measurements, the molybdenum converter may be replaced by the photolytic converter (PLOC).

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

nCLD 899 Y	nCLD 899 Y	System Operator	
NO	223.32	ppb	<u> </u>
NOx	243.82	ppb	<u></u>
N02	20.50	ppb	

## 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. 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 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 conforms 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
- Choice between several types and numbers of converters
- Photolytic converter for NO<sub>2</sub> detection
- Expandable to CraNOx II

four freely selectable ranges Measuring ranges

from 1 ppb - 1000 ppb

Min. detectable concentration\* <0.025 ppb

<0.01 ppb Noise at zero point  $(1\sigma)^*$ 

Lag time <3 sec

Rise time (0-90%) <1 sec

5 - 40 °C Temperature range

Humidity tolerance 5 - 95% rel. h

(non-condensing, ambient air

and sample gas)

Sample flow rate  $0.7 \, l/min$ 

Dry air flow rate 230ml/min

ambient Input pressure

Converter molybdenum

Dry air use for  $O_3$  generator  $200 \, \mathrm{ml/min}$ 

Power required 500 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

height: 178 mm Dimensions width: 450 mm

with molding: 495 mm depth: 540 mm

45 kg (99.2 lb.) Weight

Delivery includes nCLD 899 Y analyzer, power cable,

FTDI-RS232-USB cable, USB-LAN adapter,

manual

Standard nCLD 899 Y pre chambers

(External Box)

molybdenum converter

Options **PLOC**  $\cdot \operatorname{CraNOx} \operatorname{II} \operatorname{System}$ 

· USB-RS232 9pin connector Analog output

 $\cdot$  0 - 10 V/4 - 20 mA into 500  $\Omega$ max.

## **FLOW DIAGRAM**

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



