ECO PHYSICS nCLD 899 CY

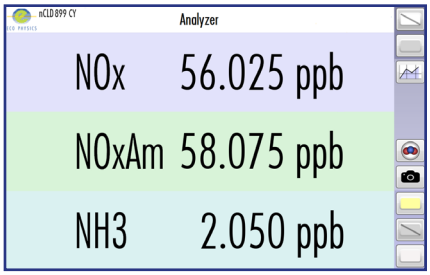
APPLICATION EXAMPLES

- Precicse ambient measurements
- Background ambient monitoring
- Flux measurements
- Long range transport
- Tropospheric research
- Certification and calibration

The nCLD 899 CY analyzer is the next generation in ultra high precision nitrogen oxide and NH_3 measurement. Unique in speed and reliability, the nCLD 899 CY is modular designed and capable of detecting lowest quantities of NO, NO_2, NO_X, NO_X-amines and NH_3 in the range of parts per trillion. The new and intuitive graphical user interface "GUI" also individually displays and connects to other instruments' data.

Convenient and Highly Precise

The nCLD 899 CY fulfills the requirements of many research groups specializing in detection and monitoring smallest variations of N-containing compounds, such as NO, NO_2, NO_X, NO_X-amines and NH_3. NH_3 measurement is accomplished by a sequential detection of NO_X and NO_X-amines. The instruments two converters with distinctive characteristics, measuring the NO_X and the total NO_X-amines, enable the analyzer to determine the NH_3. The pre chambers minimize zero drift and cross sensitivity. This makes it ideally suited for areas with excellent air quality. Calibration and adjustment of the unit runs quick and automatic, ensuring unsurpassed precision and reliability.



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

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 CY, providing high quality analysis.

Compact, Modular and Intelligent!

The nCLD 899 CY 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_2 detection
- Expandable to CraNOx II

Measurably better

SPECIFICATIONS

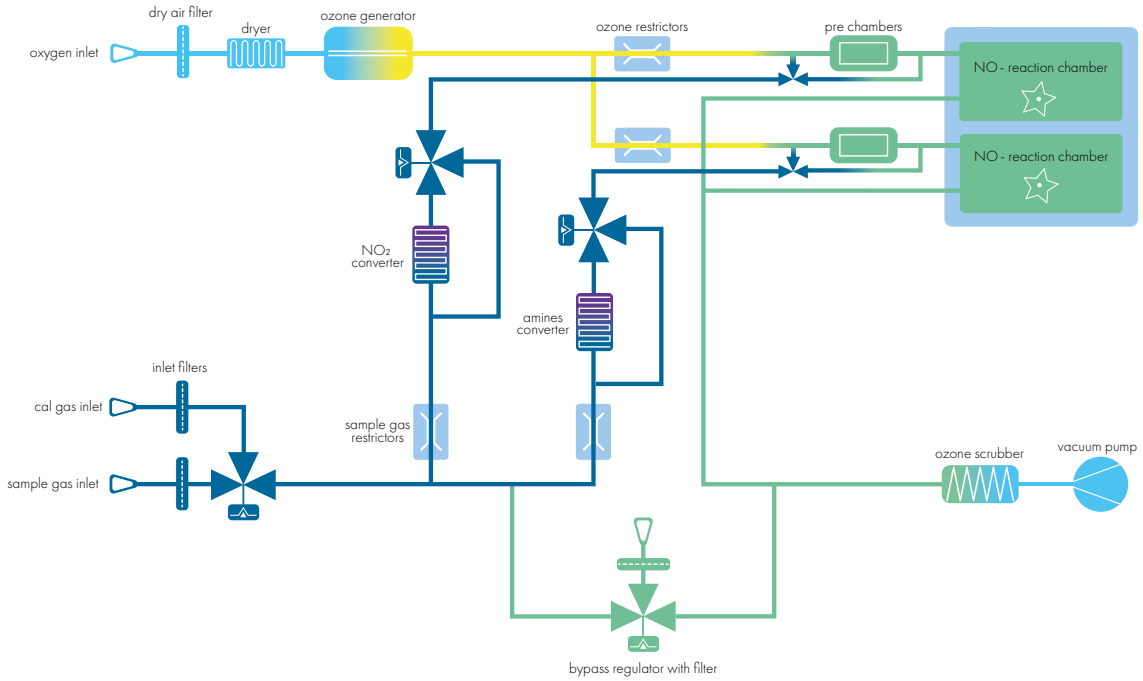
nCLD 899 CY

Measuring ranges	four freely selectable ranges from 1 ppb - 1000 ppb
*Min. detectable concentration**	<0.025 ppb
*Noise at zero point (1σ)**	<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	0.7 l/min
Dry air flow rate	230ml/min
Input pressure	ambient
Converters	catalytic, molybdenum
Dry air use for O_3 generator	200 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
Dimensions		height: 178 mm width: 450 mm with molding: 495 mm depth: 540 mm
Weight		45 kg (99.2 lb.)
Delivery includes		nCLD 899 CY analyzer, power cable, FTDI-RS232-USB cable, USB-LAN adapter, manual
Standard	nCLD 899 CY	pre chambers catalytic converter molybdenum converter
Options	PLOC	· CraNOx II System · USB-RS232 9pin connector
	Analog output (External Box)	· 0 - 10 V/4 - 20 mA into 500 Ωmax.

FLOW DIAGRAM

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



ECO PHYSICS

ECO PHYSICS INC. . 3915 Research Park Drive, Suite A-3 . ANN ARBOR, MI 48108-2200 . USA . Phone: (734) 998-1600

sales@ecophysics-us.com . www.ecophysics-us.com