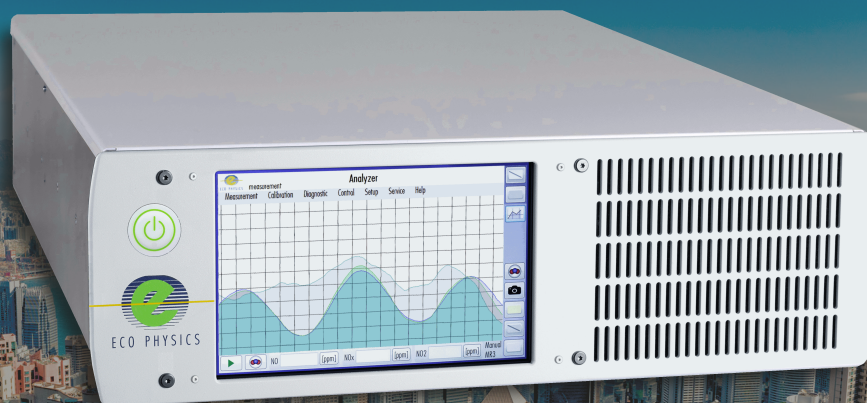




ECO PHYSICS nCLD AL²

APPLICATION EXAMPLES

- Ambient air monitoring
- Outdoor and indoor application
- Certification and calibration
- Research



The nCLD AL² is the next generation in two-channel high precision ambient air monitoring instrumentation. Unique in speed and reliability, the nCLD AL² is modular designed and capable of simultaneously measuring NO, NO₂ and NO_x. Its new user interface also individually displays and connects to other instruments' data.

Measurement of:

- NO
- NO₂
- NO_x

Flexible Ambient Air Monitoring

The nCLD AL² is the ideal instrument for ambient air monitoring, either installed in racks, fixed monitoring stations or mobile laboratories. Besides the ambient air in the open environment, the analyzer is also suitable for air quality monitoring in production plants and offices (TLV = threshold limit value). The nCLD AL² is a two-channel NO_x-detector based on a modular principle. The measurement ranges are individually adjustable, the parameters are NO, NO₂ and NO_x and the instrument's inlet operates at ambient pressure. Calibration of the unit runs quick and automatic while all necessary data is continuously stored and readily available anywhere and at any time.

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 AL², ensuring unsurpassed precision and reliability.

Compact, Modular and Intelligent!

The nCLD AL² 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).

- Rapid system integration and rack mounting
- Compact and modular design
- Virtually maintenance free even in continuous operation
- Four freely selectable measuring ranges

Graphical user interface for individual analyzer operation and data management

NO	634.0 ppb
NOx	644.0 ppb
NO2	10.0 ppb

Measurably better

SPECIFICATIONS

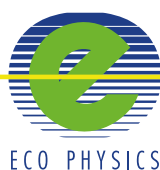
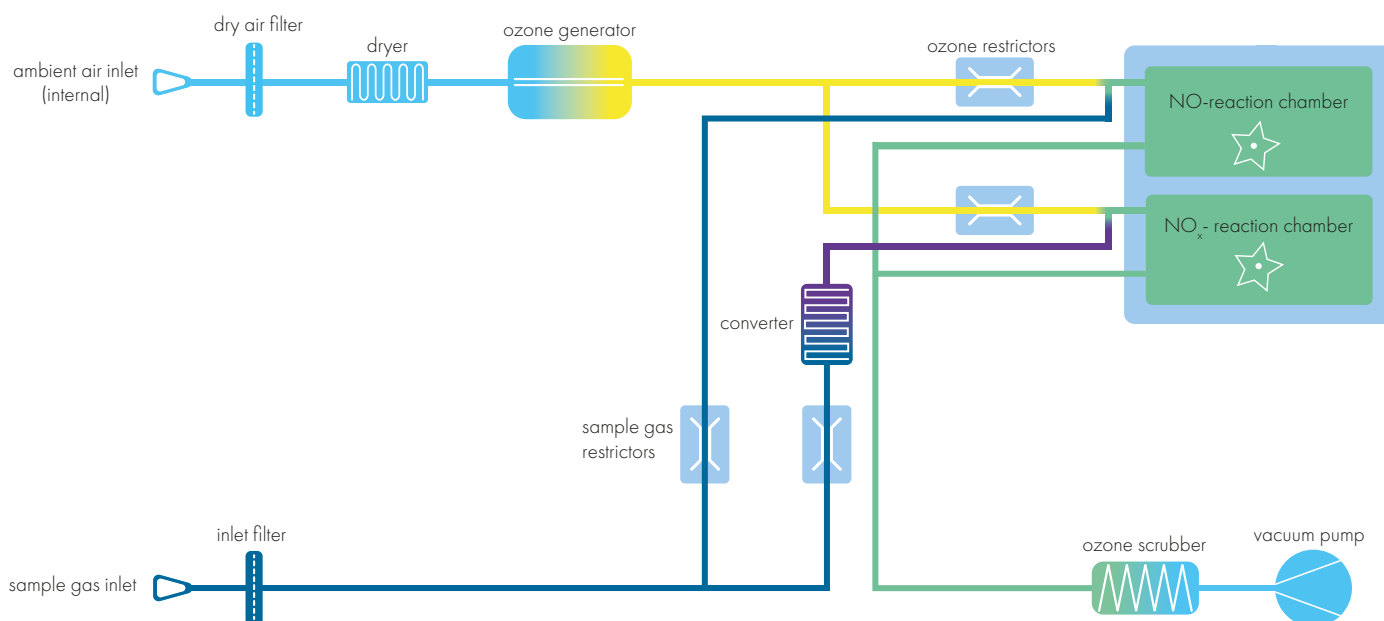
nCLD AL²

Analyzer type	dual chamber CLD with cooled PMT for simultaneous measurement of NO, NO ₂ , NO _x	Power required	350 VA (incl. membrane pump and ozone scrubber)
Measuring ranges	four freely selectable ranges from 100 ppb - 50'000 ppb	Supply voltage	100 - 240 V/50 - 60 Hz
Min. detectable concentration*	0.4 ppb	Interface	USB(3x), HDMI, Bluetooth, RS232 (w/o 9pin connector), LAN, WLAN
Noise at zero point (1σ)*	<0.2 ppb	Dimensions	height: 133 mm (5¼ ") width: 450 mm (19 ") with molding: 495 mm depth: 540 mm (21.2 ")
Lag time	<3 sec	Weight	23 kg (51 lb)
Rise time (0 - 90%)	<1 sec	Delivery includes	nCLD AL ² analyzer, power cable, FTDI-RS232-USB cable, USB-LAN adapter, HDMI adapter
Temperature range	0 - 40 °C	Standard	nCLD AL ² · Y - molybdenum converter
Humidity tolerance	5 - 95% rel. h (non-condensing, ambient air and sample gas)	Options	· USB-RS232 9pin connector · 0 - 10 V · 4 - 20 mA into 500 Ω max.
Sample flow rate	1.0 l/min	Analog output (External Box)	
Input pressure	600 - 1200 mbar abs.		
Dry air use for O ₃ generator	internally generated (no external supply gas required)		

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FLOW DIAGRAM

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



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