ECO PHYSICS nCLD AL³/ 8555

APPLICATION EXAMPLES

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

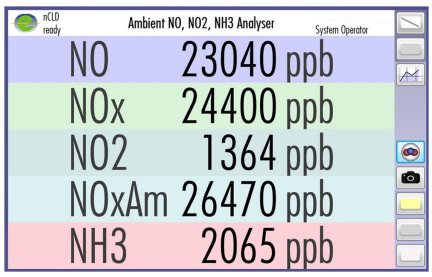
The nCLD AL³ and 8555 are the next generation in three-channel high precision ambient air monitoring instrumentation. Unique in speed and reliability, the nCLD AL³ and 8555 are modular designed and capable of simultaneously measuring NO, NO_2 NO_x and NH_3. Its graphical user interface also individually displays and connects to other instruments' data.

Measurement of:

- **NO**
- **NO_2**
- **NO_x**
- **NH_3**

Flexible Ambient Air Monitoring

The nCLD AL³/8555 is the ideal instrument for ambient air and specialty gases 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 gas and air quality monitoring in production plants (TLV = threshold limit value). The measurement ranges are individually adjustable, the parameters are NO, NO_2, NO_x and NH_3. 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.



Graphical user interface for individual analyzer operation and data management

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 ensuring unsurpassed precision and reliability.

Compact, Modular and Intelligent!

The nCLD AL³/8555 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

Measurably better

SPECIFICATIONS

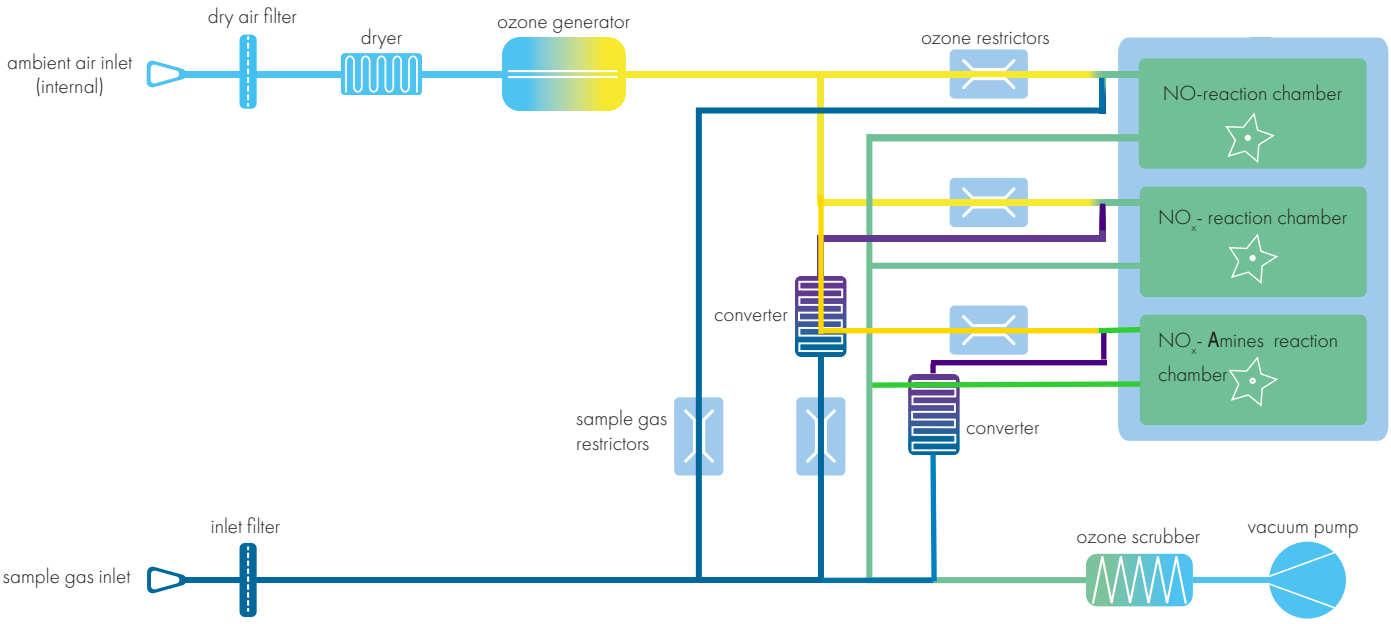
nCLD AL³/ 8555

Analyzer type	dual chamber CLD with cooled PMT for simultaneous measurement of NO, NO_2, NO_x, NH_3
Measuring ranges	four freely selectable ranges from 100 ppb - 50'000 ppb NH3 - 5'000 ppb
*Min. detectable concentration**	0.4 ppb
*Noise at zero point (1σ)**	< 0.2 ppb
Lag time	< 3 sec
Rise time (0 - 90%)	< 1 sec
Temperature range	0 - 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.
Dry air use for O_3 generator	internally generated (no external supply gas required)

Power required		350 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: 133 mm (5¼ ") width: 450 mm (19 ") with molding: 495 mm depth: 540 mm (21.2 ")
Weight		23 kg (51 lb)
Delivery includes		nCLD AL³ analyzer, power cable, FTDI-RS232-USB cable, USB-LAN adapter, HDMI adapter
Standard	nCLD AL³	· **Y** - molybdenum converter · **C** - catalyst converter
Options	Analog output (External Box)	· USB-RS232 9pin connector · 0 - 10 V 4 - 20 mA into 500 Ω max.

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

FLOW DIAGRAM



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