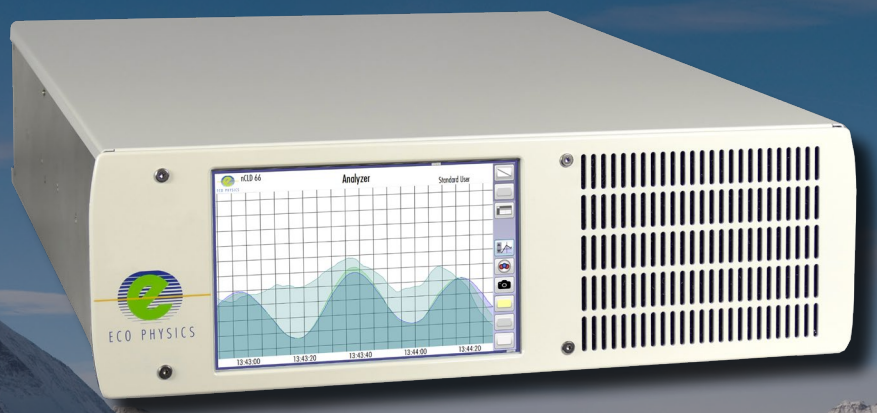
# ECO PHYSICS **nCLD 66**



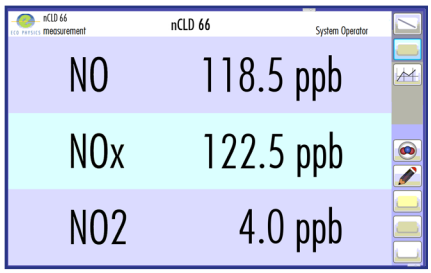

## APPLICATION EXAMPLES

- Ambient air monitoring
- Clean room monitoring
- Mobile area surveillance
- Surveillance of R&D processes
- Biomed. and phrama research
- Plant physiological research
- Certification and calibration

**The nCLD 66 is the next generation in one-channel ambient air monitoring instrumentation. Unique in speed and precision, the nCLD 66 is modular designed and capable of measuring NO, $NO_2$ and $NO_X$. The analyzers expandable capabilities allow assessment of additional nitrogen oxide based parameters. Its graphical user interface "GUI" also individually displays and connects to other instruments' data.**

### Flexible Ambient Air Monitoring

The nCLD 66 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 66 is a one-channel $NO_X$-detector based on a modular principle. The measurement ranges are individually adjustable, the parameters are NO, $NO_2$ and $NO_X$ and the instrument's inlet operates at ambient pressure. Calibration and adjustment of the unit runs quick and automatic while all necessary data is continuously stored and available anywhere and at any time.




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 66, ensuring unsurpassed precision and reliability.

### Compact, Modular and Intelligent!

The nCLD 66 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).

- Compact and modular design
- Guided touchscreen operation
- Mobile DC operation
- Remote operation, control and maintenance
- Molybdenum or steel converter for $NO_x$ detection
- Four freely selectable measuring ranges

*Measurably better*

# SPECIFICATIONS

# nCLD 66

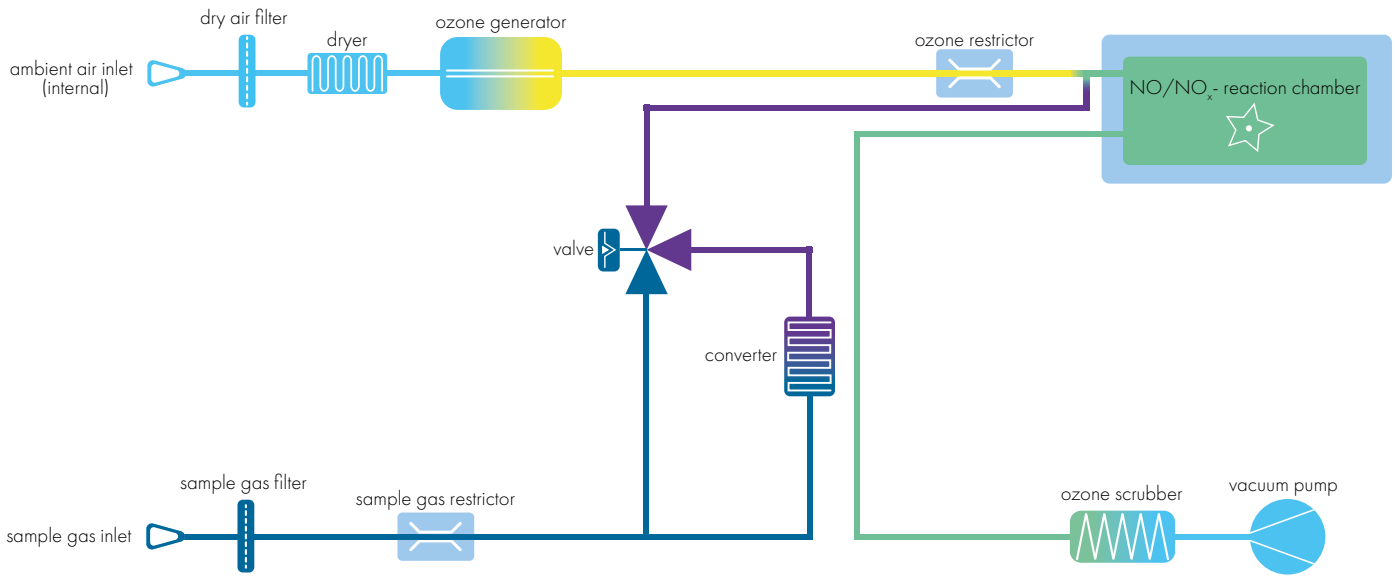
| | |
|---|---|
| *Measuring ranges* | four freely selectable ranges from 50 ppb – 25'000 ppb |
| *Min. detectable concentration** | 0.5 ppb |
| *Noise at zero point (1σ)** | 0.25 ppb |
| *Lag time* | <1 sec |
| *Rise time (0–90%)* | <1 sec |
| *Temperature range* | 5 - 40 °C |
| *Humidity tolerance* | 5 - 95% rel. h (non-condensing, ambient air and sample gas) |
| *Dry air use for $O_3$ generator* | internally generated (no external supply gas required) |
| *Sample flow rate* | 100 ml/min |
| *Input pressure* | ambient |
| *Power required* | 280 VA<br>250 VA external membrane pump |

| | | |
|---|---|---|
| *Supply voltage* | | 100–230 V/50–60 Hz |
| *Interface* | | USB(2x), HDMI, Bluetooth, RS232 (w/o 9pin connector), LAN, WLAN |
| *Dimensions* | | height: 133 mm (5¼ ")<br>width: 450 mm (19 ")<br>depth: 540 mm (21.2 ") |
| *Weight* | | 16 kg (35 lb) without pump |
| *Delivery includes* | | nCLD 66 analyzer, power cable, USB-LAN adapter, manual |
| *Standard* | nCLD 66 | NO, $NO_2$ , $NO_x$ analyzer molybdenum converter |
| *Options* | | · steel converter<br>· rack mount slides<br>· inlet filter<br>· FTDI-RS232-USB cable<br>· USB-RS232 9pin connector<br>· 24 V op. incl. DC vacuum pump |
| | 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.*

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