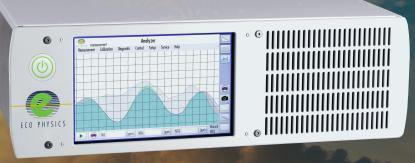
ECO PHYSICS **nCLD EL**

APPLICATION EXAMPLES

Stack emission measurement
Surveillance of ship engines
Boiler and burner operation
Gas turbine installations
Research and development



The nCLD EL is the next generation in single-channel NO/NO_x measurement. Unique in speed and precision, the nCLD EL allows the continuous measurement of concentrations in the range of parts per million. The measuring principle complies with international emissions monitoring regulations and its new and intuitive user interface individually displays and connects to other instruments' data.

Measurement of:

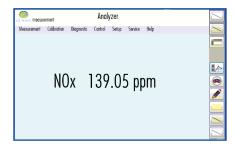
NO

• NO,

Precise and Reliable

The nCLD EL with metal converter fulfills the specific requirements for exact and economical monitoring of NO/NO_y, in order to ensure compliance with relevant norms and regulations. All necessary data, such as calibration history, instrument status and warning conditions are continuously stored and available anywhere and at any time. The analyzer is designed for either mobile or stationary operation in line with an existing gas preconditioning unit, which ensures quality control as well as staying within threshold values. The calibration sequence and adjustment of the unit runs guickly and automatically, ensuring unsurpassed precision and reliability.

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 of the nCLD EL.

Compact, Modular and Intelligent!

The nCLD EL 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 stationary source emissions (EN 15267).

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

Measurably better

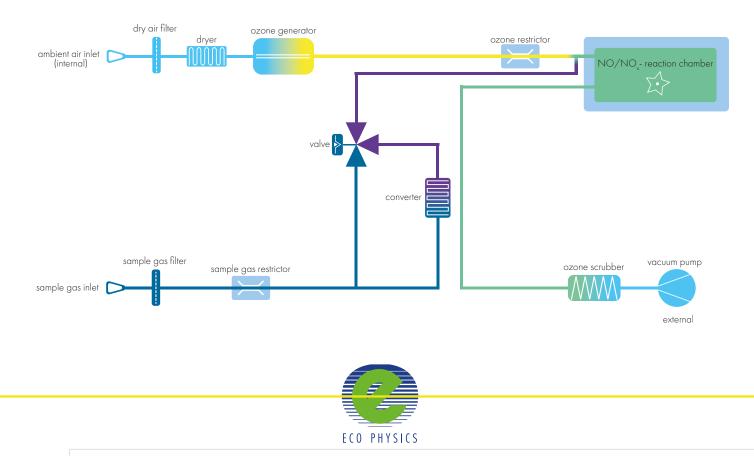
SPECIFICATIONS

nCLD EL

Analyzer type	single channel CLD for measurement of NO or NO _v	Supply voltage	110 V / 230 V/50 - 60 Hz
Measuring ranges	four freely selectable ranges from 0.5 ppm - 500 ppm	Interface	USB(3x), HDMI, Bluetooth, RS232 (w/o 9pin connector), LAN, WLAN
Min. detectable concentration*	0.05 ppm	Dimensions	height: 133 mm (5¼ ″) width: 450 mm (19 ″) depth: 540 mm (21.2 ″)
Noise at zero point (1 σ)*	0.025 ppm		
Lag time	<3 sec	Weight	16 kg (35 lb) without pump
Rise time (0 - 90%)	<3 sec	Delivery includes	nCLD EL analyzer, power cable, USB-LAN adapter
Temperature range	5 - 40 °C	Standard nCLD 63 N	
Humidity tolerance	5 - 95% rel. h (non-condensing, ambient air and sample gas)		• External pump • External power supply
		Options	 toggle mode for NO; measurement 24 V operation incl. DC vacuum pump inlet filter rack mount slides FTDI-RS232-USB cable HDMI cable USB-RS232 9pin connector 0 - 10 V
Sample flow rate	0.2 l/min		
Input pressure	ambient ext. stabilized within ±3 mbar		
Dry air use for O_3 generator	internally generated (no external supply gas required)	Analog outp	
Power required	300 VA 250 VA external membrane pump	(External Box	4 - 20 mA into 500 Ω max.

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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