



ECO PHYSICS nCLD 811 M

APPLICATION EXAMPLES

- Emissions test benches
- Testing of burner systems
- Catalyst development
- Engine test cells
- Car production
- Exhaust analysis

The nCLD 811 M is the next generation in two-channel emissions monitoring instrumentation. Unique in speed and reliability, the nCLD 811 M is modular designed and allows the continuous and simultaneous analysis of NO, NO₂ and NO_x in raw exhaust gasses with NO_x concentrations ranging from several thousand ppm down to a ppb. Its graphical user interface also individually displays and connects to other instruments' data.

Measurement of:

- NO
- NO₂
- NO_x

When Decimals are Decisive

The nCLD 811 M fulfills the requirements of the automotive industry when it comes to producing reproducible and reliable NO_x data. With the heated inlet and the built in automated pressure control system, the analyzer is capable of handling rough samples, such as raw exhaust gas. With a detection limit as low as 1 ppb, the nCLD 811 M is also suited for analyzing bag samples. The instrument has a broad range of capabilities designed to fit into this state of the art NO_x monitor with included temperature stabilization. Furthermore, calibration and adjustment of the unit runs quickly and automatically with all necessary data stored and available.

User Friendliness

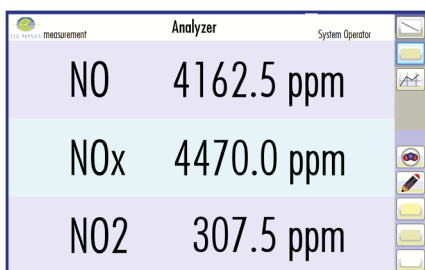
The new touch sensitive graphical user interface enables the user to individually adjust the instrument operation and data management according to his/her needs and applications. The bright 7" monitor gives a clear overview and allows numerical and graphical display of values. Multiple digital in- and outputs guarantee a maximal connectivity for your remote operation, control and maintenance of the nCLD 811 M, ensuring unsurpassed precision and reliability.

Compact, Modular and Intelligent!

The nCLD 811 M 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.

- Compact design without any additional space required
- Minimized CO₂ and H₂O quenching
- Four freely selectable measurement ranges
- Touch screen operation or remote operation

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



Measurably better

SPECIFICATIONS

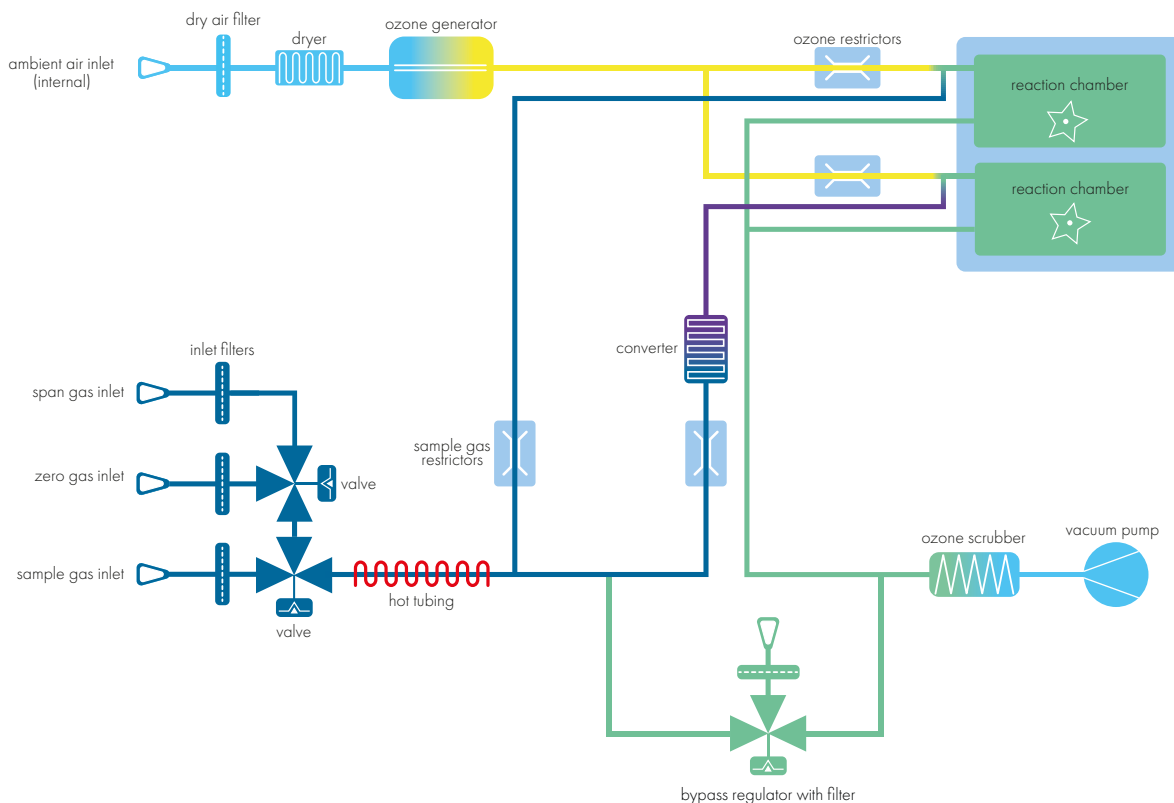
nCLD 811 M

Analyzer type	dual chamber CLD with cooled PMT for measurement of NO, NO ₂ and NO _x	Supply voltage	100 - 240 V / 50 - 60 Hz
Measuring ranges	four freely selectable ranges from 1 ppm - 10'000 ppm	Interface	USB(3x), HDMI, Bluetooth, RS232 (w/o 9pin connector), LAN, WLAN
Min. detectable concentration*	1 ppb	Dimensions	height: 178 mm width: 450 mm with molding: 495 mm depth: 540 mm
Noise at zero point (1σ)*	0.5 ppb	Weight	45 kg (91 lb)
Lag time	<3 sec	Delivery includes	nCLD 811 M analyzer, power cable, FTDI-RS232-USB cable, USB-LAN adapter, HDMI adapter
Rise time (0 - 90%)	<1 sec	Standard	nCLD 811 M
Temperature range	5 - 40 °C		<ul style="list-style-type: none"> · M - metal converter · h - hot tubing · r - electro-mechanical pressure regulation · V2 - two calibration valves for pressurized calibration (zero & span / 2-3 bar)
Humidity tolerance	5 - 95% rel. h (non-condensing, ambient air and sample gas)	Options	<ul style="list-style-type: none"> · V8 - valve manifold · 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 - 1'200 mbar abs.		
Dry air use for O₃ generator	internally generated (no external supply gas required)		
Power required	650 VA (incl. membrane pump and ozone scrubber)		

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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.



ECO PHYSICS

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