

Measurement of:

- NO
- NO,
- NO<sub>X</sub>

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

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The nCLD 811 M fulfills the requirements of the automotive industry when it comes to producing reproducible and reliable  $NO_v$  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, monitor with included temperature stabilization. Furthermore, calibration and adjustment of the unit runs quickly and automatically with all necessary data stored and available.

mecourement	Analyzer System Operator	
NO	4162.5 ppm	M
NOx	4470.0 ppm	<u>•</u>
NO2	307.5 ppm	

## **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 CO<sub>2</sub> and H<sub>2</sub>O quenching
- Four freely selectable measurement ranges
- Touch screen operation or remote operation

Analyzer type	dual chamber CLD with cooled PMT for measurement of NO, NO $_{\rm 2}$ and NO $_{\rm X}$		
Measuring ranges	four freely selectable ranges from 1 ppm - 10'000 ppm		
Min. detectable concentration*	1 ppb		
Noise at zero point $(1\sigma)^*$	0.5 ppb		
Lag time	<3 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)		
Sample flow rate	1.0 l/min		
Input pressure	600 - 1'200 mbar abs.		
Dry air use for $O_3$ generator	internally generated (no external supply gas required)		
Power required	650 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: 178 mm width: 450 with molding: 495 mm depth: 540 mm	
Weight		45 kg (91 lb)	
Delivery includes		nCLD 811M analyzer, power cable, FTDI-RS232-USB cable, USB-LAN adapter, HDMI adapter	
Standard	nCLD 811 M	• M - metal converter • h - hot tubing • r - electro-mechanical pressure regulation • V2 - two calibration valves for pressurized calibration (zero & span / 2-3 bar)	
Options	Analog output (External Box)	<ul> <li>V8 - valve manifold</li> <li>USB-RS232 9pin connector</li> <li>0 - 10 V</li> <li>4 - 20 mA into 500 Ω max.</li> </ul>	

## **FLOW DIAGRAM**

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



