



ECO PHYSICS nCLD 88 Yp

APPLICATION EXAMPLES

- Ambient air monitoring
- Clean room monitoring
- Analysis of chem. processes
- Surveillance of R&D processes
- Biomed. and pharma research
- Plant physiological research
- Certification and calibration



The nCLD 88 Yp is the next generation in measuring smallest amounts of NO or NO_x. Unique in speed and precision, the nCLD 88 Yp is modular designed and allows the sequential measurement of concentrations even in the range of parts per trillion and is expandable to assess additional nitrogen oxide based parameters. Its new and intuitive user interface also individually displays and connects to other instrument's data.

Measurement of:

- NO/ NO_x

Precise and Reliable

The nCLD 88 Yp fulfills the requirements of many research groups specializing in detection and monitoring smallest variations of N-containing compounds, such as NO or NO_x. The fully revised detector-block, the enhanced gas flow paths and the improved pressure as well as temperature independence of the nCLD 800 Series allow for even lower detection limits. Overall stability and reliability are lifted to a new level. The pre chamber of the nCLD 88 Yp also minimizes zero drift and cross sensitivity. This makes it ideally suited for areas with excellent air quality. The Calibration and the adjustment of the unit runs quick and automatic, ensuring unsurpassed precision and reliability.

User Friendliness

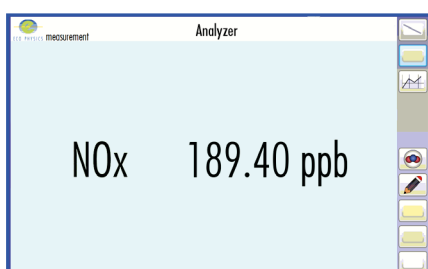
The new touch sensitive graphical user interface enables the user to individually adjust the instrument operation and data management according to his/ her needs and applications. All necessary data is continuously and available. The bright 7" monitor gives a clear overview and allows numerical and graphical display of values. Multiple digital in- and outputs guarantee a maximal connectivity and flexibility for the remote operation and maintenance of the nCLD 88 Yp.

Compact, Modular and Intelligent!

The nCLD 88 Yp 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).

- Compact design without additional space required
- Pre chamber to offset cross sensitivity
- Four freely selectable measuring ranges
- Rapid system integration

Graphical user interface for individual analyzer operation and data management



Measurably better

SPECIFICATIONS

nCLD 88 Yp

Analyzer type	single chamber CLD with cooled PMT for measurement of NO or NO _x	Supply voltage	100 - 240 V / 50 - 60 Hz
Measuring ranges	four freely selectable ranges from 5 ppb - 5'000 ppb	Interface	USB(3x), HDMI, Bluetooth, RS232 (w/o 9pin connector), LAN, WLAN
Min. detectable concentration*	0.05 ppb	Dimensions	height: 133 mm (5¼") width: 450 mm (19") with molding: 495 mm depth: 540 mm (21.2")
Noise at zero point (1σ)*	<0.025 ppb	Weight	23 kg (51 lb)
Lag time	<3 sec (without pre chamber)	Delivery includes	nCLD 88 Yp analyzer, power cable, FTDI-RS232-USB cable, USB-LAN adapter, HDMI adapter
Rise time (0 - 90%)	<1 sec (without pre chamber)	Standard	nCLD 88 Yp · Y - molybdenum converter · p - pre chamber
Temperature range	5 - 40 °C	Options	· V1 - single calibration valve · V2 - two calibration valves for pressurized calibration (zero & span / 2-3 bar) · h - hot tubing · r - electro-mechanical pressure regulation · USB-RS232 9pin connector · 0 - 10 V · 4 - 20 mA into 500 Ω max.
Humidity tolerance	5 - 95% rel. h (non-condensing, ambient air and sample gas)	Analog output (External Box)	
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	400 VA (incl. membrane pump and ozone scrubber)		

FLOW DIAGRAM

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

