

Precise and Reliable

The nCLD 88 p fulfills the requirements of many research groups specializing in detection and monitoring smallest quantities of NO2 within less than thirty seconds response time and less than one second lag-time. NO2 measurement is accomplished by a sequential detection of NO and NO_v by means of the photolytic converter PLC 860. The pre chamber minimizes zero drift and cross sensitivity. This makes it ideally suited for areas with excellent air quality. The photolytic converter PLC 860 can be replaced by the optionally available molybdenum converter. Calibration and adjustment of the unit runs quick and automatic, ensuring unsurpassed precision and reliability.

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

nCLD 88 p	Analyzer	System Operator	
NO	183.55	ppb	
NOx	189.40	ppb 🍃	2
NO2	5.85	ppb 🧧	

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. All necessary data is continuously and available. 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 and maintenance of the nCLD 88 p.

Compact, Modular and Intelligent!

The nCLD 88 p 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 design without additional space required
- Photolytic converter for NO, detection
- Pre chamber to offset cross sensitivity
- Four freely selectable measuring ranges
- Rapid system integration

four freely selectable ranges from 5–5000 ppb Measuring ranges

Min. detectable concentration* 0.05 ppb

Noise at zero point $(1\sigma)^*$ 0.025 ppb

Lag time

<1 sec Rise time (0-90%) <30 sec

Temperature range 5 - 40 °C

5 - 95% rel. h Humidity tolerance

(non-condensing, ambient air

and sample gas)

Sample flow rate 0.3 l/min

to be externally stabilized Input pressure

within ±3mbar

Dry air use for O₃ generator internally generated (no external

supply gas required)

400 VA (incl. membrane pump Power required

and ozone scrubber)

Supply voltage 100-230 V/50-60 Hz

Interface USB(2x), HDMI, Bluetooth, RS232 (w/o 9pin connector),

LAN, WLAN

height: 133 mm (51/4 ") width: 450 mm (19 ") Dimensions

with molding: 495 mm depth: 540 mm (21.2 ")

23 kg (51 lb)

Weight

Delivery includes nCLD 88 p analyzer, power cable,

FTDI-RS232-USB cable, USB-LAN

adapter, manual

Standard nCLD 88 p PLC 860, pre chamber

Options

· molybdenum converter · electro-mechanical pressure regulation

· USB-RS232 9pin connector · 0 - 10 V/4 - 20 mA into 500 Ω max.

Analog output (External Box)

FLOW DIAGRAM

* depending on filter setting ECO PHYSICS reserves the right to change these specifications without notice.



