

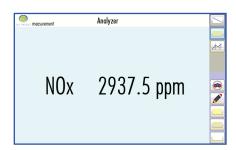
Measurement of:

• NO/NO_x

Straight From the Source

The nCLD 82 Mh includes everything that is needed for measuring NO, in unpreconditioned gas samples. integrated hot tubing enables the instrument to analyze hot and moist sources and the optional electro-mechanical bypass system balances out pressure variations occurring in the sample flow. Furthermore, the analyzer is adaptable to numerous non-standardized applications. Dual sample gas inlet is an option that allows the user to measure two sources in parallel, enabling comparison of the samples. Calibration and adjustment of the unit runs quick and automatically, while all necessary data is continuously stored and available anywhere and at any time.

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



User Friendliness

The new and intuitive touch sensitive graphical user interface enables the user to individually adjust the instrument operation data management to his/her according needs 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 82 Mh.

Compact, Modular and Intelligent!

The nCLD 82 Mh 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).

- Rapid system integration and rack mounting
- Compact and modular design
- Virtually maintenance free even in continuous operation
- Four freely selectable measuring ranges

Analyzer type	single chamber CLD with cooled PMT for measurement of NO or NO_χ
Measuring ranges	four freely selectable ranges from 5 ppm - 5'000 ppm
Min. detectable concentration*	0.12 ppm
Noise at zero point $(1\sigma)^*$	0.06 ppm
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	350 VA (incl. membrane pump and ozone scrubber)

Supply voltage 100 - 240 V/50 - 60 Hz			
RS232 (w/o 9pin connector), LAN, WLAN Dimensions height: 133 mm (5¼") width: 450 mm (19") with molding: 495 mm depth: 540 mm (21.2") Weight 23 kg (51 lb) Delivery includes nCLD 82 Mh analyzer, power cable, FTDI-RS232-USB cable, USB-LAN adapter, HDMI adapter Standard nCLD 82 Mh • M - metal converter • h - hot tubing Options • V1 - single calibration valve • V2 - two calibration valves for pressurized calibration (zero & span / 2-3 bar) • r - electro-mechanical pressure regulation • USB-RS232 9pin connector • O - 10 V	Supply voltage		100 - 240 V/50 - 60 Hz
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Delivery includes nCLD 82 Mh analyzer, power cable, FTDI-RS232-USB cable, USB-LAN adapter, HDMI adapter • M - metal converter • h - hot tubing Options • V1 - single calibration valve • V2 - two calibration valves for pressurized calibration (zero & span / 2-3 bar) • r - electro-mechanical pressure regulation • USB-RS232 9pin connector • O - 10 V	Dimensions		width: 450 mm (19 ") with molding: 495 mm
FTDI-RS232-USB cable, USB-LAN adapter, HDMI adapter Standard nCLD 82 Mh M - metal converter h - hot tubing V1 - single calibration valve V2 - two calibration valves for pressurized calibration (zero & span / 2-3 bar) r - electro-mechanical pressure regulation USB-RS232 9pin connector O - 10 V	Weight		23 kg (51 lb)
Options • V1 - single calibration valve • V2 - two calibration valves for pressurized calibration (zero & span / 2-3 bar) • r - electro-mechanical pressure regulation • USB-RS232 9pin connector Analog output • 0 - 10 V	Delivery include	S	FTDI-RS232-USB cable, USB-LAN adapter,
• V2 - two calibration valves for pressurized calibration (zero & span / 2-3 bar) • r - electro-mechanical pressure regulation • USB-RS232 9pin connector • O - 10 V	Standard	nCLD 82 Mh	
	Options		• V2 - two calibration valves for pressurized calibration (zero & span / 2-3 bar) • r - electro-mechanical pressure regulation • USB-RS232 9pin connector • 0 - 10 V

FLOW DIAGRAM

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

