



# ECO PHYSICS nCLD 84 TEX

## APPLICATION EXAMPLES

- Petrol industry
- Manufacturers of gas turbines
- Certification and calibration
- DeNO<sub>x</sub> plants
- Stack gas measurement
- Gas manufacturers industry
- Research and development



**The nCLD 84 TEX analyzer is the next generation in high precision single-channel nitrogen oxide measurement. Unique in speed and reliability, the nCLD 84 TEX has a modular design and is ideal for refineries and power plants. The new and intuitive graphical user interface displays numerical or graphical NO/NO<sub>x</sub> values.**

## Measurement of:

- NO/NO<sub>x</sub>

## Convenient and Highly Precise

The nCLD 84 TEX includes everything for measurement of NO or NO<sub>x</sub>. The fully revised detector block, enhanced gas flow paths and improved pressure as well as temperature independence of the nCLD 800 Series instruments allow for even lower detection limits. Overall stability and reliability are lifted to a new level. The uncontrolled bypass system balances out pressure variations occurring in the sample flow. Furthermore, the analyzer is adaptable to numerous non-standardized applications. The calibration of the unit runs quickly and automatically, with all necessary data available anywhere and at any time.

## User Friendliness

The new touch sensitive graphical user interface enables the user to individually adjust the instrument operation and data management according to their needs and applications. The bright 7" monitor gives a clear overview and allows numerical and graphical display of values. The nCLD 84 TEX comes with analog and digital I/O for maximum connectivity and flexibility for the remote operation, control and oversight of the nCLD 84 TEX.

## Compact, Modular and Intelligent!

The nCLD 84 TEX 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 tubing. The measurement principle conforms to the standard method for NO<sub>x</sub>-detection in stationary source emissions.

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

Graphical user interface for individual analyzer operation and data management



**Measurably better**

## SPECIFICATIONS

## nCLD 84 TEX

Analyzer type	single chamber CLD with cooled PMT for measurement of NO or NO <sub>x</sub>	Supply voltage	100 - 240 V/50 - 60 Hz
Measuring ranges	four freely selectable ranges from 0.5 ppm - 500 ppm	Interface	RS232 (9pin connector), LAN
Min. detectable concentration*	0.1 ppm	Dimensions	height: 133 mm (5¼") width: 450 mm (19") with molding: 495 mm depth: 540 mm (21.2")
Noise at zero point (1σ)*	0.05 ppm	Weight	23 kg (51 lb)
Lag time	<3 sec	Delivery includes	nCLD 84 TEX with 7" display, power cable, RS-232 cable
Rise time (0 - 90%)	<1 sec	Standard, nCLD 84 TEX	· M - metal converter
Temperature range	5 - 40 °C	Analog output	· 0 - 1 V · 0 - 10 V · 4 - 20 mA into 400 Ω max.
Humidity tolerance	5 - 95% rel. h (non-condensing, ambient air and sample gas)	Digital I/O	
Sample flow rate	1.0 l/min		
Input pressure	600 - 1'200 mbar abs.		
Dry air use for O <sub>3</sub> generator	internally generated (no external supply gas required)		
Power required	350 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.

