

nCLD 800 Series

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**We measure what's in the air.**



ECO PHYSICS

**Measurably better.**

# Our analyzers detect nitrogen oxides at any level.

No matter where and at what concentrations nitrogen oxides have to be detected, you can depend on ECO PHYSICS analyzers to handle the job quickly, reliably and with a precision that is unmatched anywhere in the world. Whether at trace levels in a clean room environment or for the analysis of exhaust gases directly at the source, you will find the type of chemiluminescence detector (CLD) to perfectly suit you at ECO PHYSICS.

## Range of applications



***Our analyzers come into action wherever nitrogen oxides have to be measured***

Improving the air quality starts with a reduction of nitrogen oxides. Accordingly, the authorities are constantly lowering the limits of permitted pollution. The monitoring of compliance with set limits of pollution requires ever more sophisticated measuring equipment. ECO PHYSICS nCLD NO<sub>x</sub> analyzers are the best choice for obtaining precise and reliable values for the presence of NO, NO<sub>2</sub>, NO<sub>x</sub>, NH<sub>3</sub> or NO<sub>x</sub> amines in the sample gas. Whether in operation as stand-alone units or integrated into measuring systems, with or without external sample gas preparation, we can always offer the most appropriate solution: for the surveillance of industrial processes as well as for the scientist in atmospheric research.

### **nCLD means high reliability**

The principle of chemiluminescence detection is an extremely selective method

for measuring nitrogen oxides precisely, with high linearity over a wide concentration range and with very high reproducibility. These qualities are the basis for the acknowledged high performance of ECO PHYSICS nCLD NO<sub>x</sub> analyzers in tracing nitrogen oxides even down to the low ppt level.

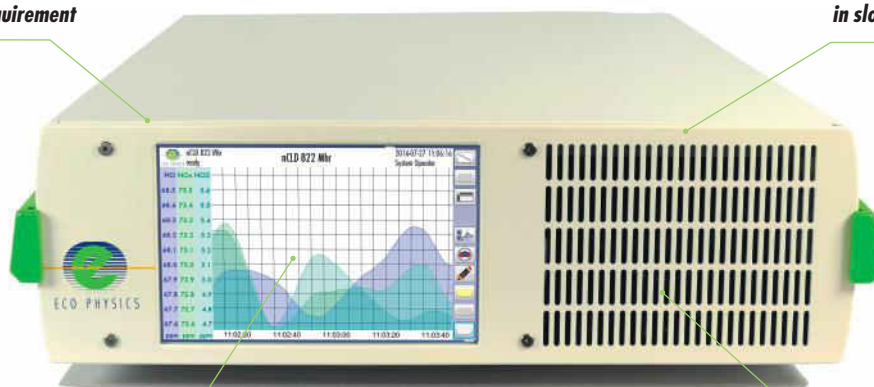
### **Equipped with neoCLD Technology**

A truly modular concept newly developed by ECO PHYSICS where each component holds its own intelligence. All modules are internally connected by a BUS communication system, which reduces the instruments' wiring. Each module comes now with its own drivers and microprocessors to measure and/or control physical parameters like temperatures, pressures, flows and counts. The main software platform nCLD-GUI controls, visualizes and logs all relevant parameters.

## The Analyzer nCLD 800

**Compact design with minimal space requirement**

**Cover plate guided in slots**



**All functions can be operated via the 8-inch color touchscreen with HD resolution**

**Radial ventilation, ideal for rack and laboratory use**

### The unique concept

Concerning precision, dynamic range and response times, ECO PHYSICS nCLD NO<sub>x</sub> analyzers are setting global standards and the convincing concept of modularity is unique. Start with a single

### Simply user-friendly

Ease of operation for our nCLD NO<sub>x</sub> analyzers has always been our special concern. The "GUI – Graphical User Interface" enables the user to take advantage of all the features and functions of the analyzer and control it by means of the integrated 8-inch color touchscreen or remotely from a PC, laptop, touch pad or mobile phone. Maintenance-free components for ozone production and destruction, the oil-free vacuum pump and filters result in a minimum of maintenance costs even in permanent operation.

**All analyzers can be supplied with pull-out rails, perfect for rack mounting**



channel CLD 8x NO analyzer as a basis. Add modules such as an NO<sub>2</sub> or NO<sub>x</sub> amine converter, an additional reaction chamber, a heated sample inlet or even a calibration gas divider to configure the optimal NO<sub>x</sub> analyzer for your specific application. For measuring the nitrogen oxides from two different sample sources, simply add a second sample inlet and save cost. And remember: there is room for all these components including the powerful vacuum pump (membrane type) and the thermal ozone scrubber in one case.



**The external connections are easily accessible, eliminating the need for extra depth**

### The ECO PHYSICS quality assurance

Each and every CLD NO<sub>x</sub> analyzer must pass an extensive test procedure before it leaves the factory. Test procedures and test equipment comply with ISO 9001 standards and are documented in accordance with international regulations.



**All components host their own intelligence**

# Creativity, curiosity and dedication to quality.

We are reaching for new markets and solutions guided by creativity and nourished by curiosity in our customers' needs. ECO PHYSICS offers today the fastest and most sensitive analyzers based on the principle of chemiluminescence.

## Clean air is quality of life

Since many years and throughout the globe, ECO PHYSICS is known. Our instruments are in place to accurately measure nitrogen oxides: to check stack and exhaust gases, to observe air quality regulations, to improve health. Many scientists of the most reputed institutes and research centers rely on the quality of their measurements with ECO PHYSICS analyzers.

## Focus on customer requirements

Working with customers that are at the leading edge of analytical and process technology, we strive to anticipate the changing needs of all our clients. Our market specialists for the business segments

- environment
- industrial processes
- automotive and combustion engines
- manufacturing of semiconductors
- medical diagnostics

and our worldwide representatives maintain contact with you.

## The pace of our R&D team

The limits of technology are relative. Our motivated people in R&D are in-

venting this statement daily. Discovering emerging applications from your new requirements is our challenge to develop solutions. Creativity, curiosity and the dedication to quality have brought us an excellent reputation and led you closer to your goals.

## Swiss quality, certified

First-grade quality is a condition, although it has been derived from international standards. It has been independently certified for ECO PHYSICS. Each and every product leaving our factory undergoes a strict quality control procedure. These performance tests can be recalled for every analyzer that ever left our manufacturing plant.

## Partnership with you

Initiate a contact and we will add our part – this means partnership to us. In close cooperation with you we are developing solutions which comply with your specific requirements. ECO PHYSICS and our representatives are there when you need us – at the start of your project, through to the whole live, support and service.



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