



We Measure what Goes into the Air.



ECO PHYSICS

Measurably better.

Optimum Emission Control for Every Situation.



ECO PHYSICS offers the broadest range of emission analyzers for the measurement of nitrogen oxide. Within this range is exactly the right instrument for every situation. All the analyzers make measurements on the basis of detecting chemiluminescence ("CLD") and integrate the latest sensors and instrumental techniques. State-of-the-art analyzers in the global market!

Nitrogen oxides are found in many industrial waste gas discharges and especially in association with combustion processes, for example in power stations, heating installations and engines. ECO PHYSICS analyzers contribute towards keeping the harmful products of these processes as low as possible by permanently monitoring the gaseous discharges. At the same time they also, of course, serve to monitor compliance with current air pollution regulations.



CLD means precision measurement.

The chemical reaction which forms the basis of the chemiluminescence principle used to measure nitrogen oxides is extremely selective. It shows high linearity over a wide concentration range and very high reproducibility. These outstanding qualities provide the physical basis for the recognized precision and reliability of ECO PHYSICS measuring instruments.

Outstanding ease of operation.

The integrated software makes comprehensive use of the analyzer a simple task. The user is guided through simple menus and the learning period required is minimal. In addition, most models are



equipped with an RS 232 interface which offers the opportunity of remote operation via a PC.

The service requirement of these measuring instruments is minimal even when in constant use.

Model range survey	E	EL	EL ht	EL dual
NO _x measurement	●	●	●	x
NO measurement	x	●	●	●
NO ₂ measurement	–	●	●	x
Simultaneous NO and NO _x measurement	–	●	●	x
Digital measurement display	●	●	●	●
Display in ppm and mg/m ³	x	x	x	x
Menu control	●	●	●	●
Different measurement ranges and automatic switching between ranges	x	●	●	●
Two independent measurement ranges	–	–	–	●
Analysis of hot moist sample gas	–	–	●	–
Bypass system	–	●	●	●
Adjustable flows	–	–	●	–
Auto-calibration function	●	●	●	●
Control of a calibrating solenoid valve	●	●	●	●
Automatic shutdown of the ozone generator	●	●	●	●
Monitoring the flowrate of the gas being measured	–	●	●	●
Analog output signals in V or mA	●	●	●	●
Galvanic separation of signals	●	●	●	●
Freely definable alarms	x	x	x	x
RS 232 interface for control by a PC	x	●	●	●
Command set as required by the automobile industry	–	–	x	–
Indicator for periodic servicing	●	●	●	●
Self-diagnosis	●	●	●	●

● = standard x = option – = not available



CLD 700 EL ht

Motor vehicle and accessories industry
Marine engine manufacturing
Generators
Incinerators
Research and development
Metal processing industry
Commercial testing and measurement services

Thanks to the integrated «hot tubing» and heated particle filter, hot gases can be fed directly from their source to the CLD 700 EL ht. In most applications, this unique analyzer does not require the cooler unit which is otherwise practically indispensable.

Such measurement is already prescribed in the automobile industry, for example. In addition, the motor industry working group for emissions has issued regulations on control and operating procedures. If you, too, wish or need to satisfy these requirements, please consult your ECO PHYSICS representative. A suitable firmware package is available.



CLD 70 E

Serial testing and quality inspections as, for example:

Exhaust gas tests
Boiler and burner manufacturing
Power stations
Process control

The CLD 70 E is our most basic instrument and is designed for NO_x measurements. It is uncomplicated and has only one reaction chamber. However, the customary ECO PHYSICS design and manufacturing standards have not been neglected. The equipment possesses, among other features, a high-efficiency ozone generator, and is furthermore convenient and simple to use.



CLD 700 EL

Gas producers
Test and calibration points
Chemical industry
Waste incineration plants
Cement producers
Paper and timber production
Glass and porcelain manufacturers

The CLD 700 EL is mostly used in systems with a facility for sample gas treatment and for the measurement of different materials in parallel. It is characterized by having several measurement ranges covering up to 10,000 ppm. Switching between the different ranges takes place automatically, without operator intervention being necessary.

Many waste incinerator plants rely on the service of our CLD 700 EL combined with a cooling unit (which we can also supply).

CLD 700 EL dual

Denox plants
Energy supply
Research
Mineral oil processing
Tobacco industry

The CLD 700 EL dual is characterized by having two independent sample gas inlets. This allows simultaneous measurement of two sources.

In addition, measurements corresponding to the new ISO standard can be carried out. This recommends the hot conversion of part of the flow, which is then passed, in parallel to the remainder of the flow, through a two-channel cooler to the two-channel analyzer.



The CLD 700 range includes models with two reaction chambers.

Every essential measurement requirement is covered by instrumentation made by ECO PHYSICS which consequently offers complete solutions.

Before leaving the factory, all analyzers are subjected to a thorough final test in a testing station meeting ISO 9001 standard. We will also gladly supply you with the "TÜV" certification numbers.

To obtain detailed information, please contact us without obligation, we will be happy to advise you.

ECO PHYSICS—the Company.

Our name tells you about our game.

Ecology and physics are close associates subject to the same laws—the laws of nature. And since we make a living by entering this complex relationship for the benefit of nature, we called our company ECO PHYSICS.

We'll tell you if it's safe to take the air.

ECO PHYSICS develops, manufactures and distributes analyzers for atmospheric pollutants, setting a worldwide standard as far as performance, precision, innovation, and design are concerned. Ours is a market-oriented business. So we comply with its wishes when the market, alarmed by more and more stringent legislation against air pollution, wants increasingly precise and reliable measuring instruments.

We cherish our R&D department.

After all, that's what keeps pure scientific research in touch with market requirements—and us in business. It's the best guarantee for ECO PHYSICS' continuing to utilise the potential of this rapidly growing market in full.

Our instruments are detecting pollutants all over the world.

ECO PHYSICS' distribution network covers the whole globe. Our highly qualified national dealers offer optimal customer counselling and top aftersales service, both ensured by our continuous ECO PHYSICS dealer training and know-how transfer.

You may have confidence in our experience.

ECO PHYSICS is located in Dürnten in the picturesque Zürcher Oberland. The quality and reliability of our products reflect the company's experience and the extensive research it has carried out over many years—and also upon a competent and committed workforce which welcomes customers of a like nature.



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