

nCLD SUPREME



**We measure what's
in the air.
Beyond any standard.**



ECO PHYSICS

Measurably better.

Ease of measurement like you have always wanted.

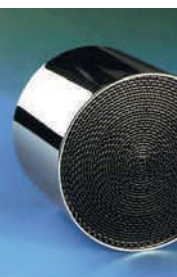
This sophisticated analyzer starts up automatically and begins the intended measurements immediately upon reaching its operating state. In the same simple manner you may operate and adapt all available parameters.

Nitrogen-containing gases

- NO
- NO₂
- NO_x
- NH₃

Combustion engines with their catalytic converters and lower emissions are challenging modern instrumentation.

*Automotive
Marine diesel
Engine development
Catalysts
Fossil fuels and
lubricants
Quality control*



User expectations

Even if an instrument is operating as a stand-alone or as a part of a complex measurement system, autonomy and transparency of the individual analyzer are imperatively required. This has started the success of touchscreens, which have become a standard for user interfaces. They combine attractive information presentation with interactive flexibility. Additionally, the user expects a powerful tool, which does not only cover the present requirement, but also anticipates upcoming trends as an investment into the future.

Standards and regulations

The automotive industry copes with regulations, which have been implemented since the last 50 years, continuously being updated and more restrictive ever after. These standards are no longer applicable only to cars, but to all combustion engines. To this effect, the International Maritime Organization (IMO) has put a lot of effort to enforce a sustainable operation of diesel driven ship engines in international waters. Created upon these standards, ECO PHYSICS developed the nCLD SUPREME.



Two-channel CLD with integrated pump

Desktop or rack mount version



Front panel retractable for easy service access

Hidden air filter package can be easily exchanged

HDMI and USB-connectors for data extraction or external devices

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

Intelligent

In the present, a user interface needs to be simple, intuitive and self-explaining. The new Graphical User Interface "GUI" is easily understandable in display and operation ... and beyond that, it is individually adjustable. You either get to choose a measurement curve, or the actually measured values to be displayed on the 8-inch-HD-touchpanel. In parallel, previously recorded data can be displayed or both values are directly transmitted to an external device. Additionally, recorded data can also include for instance the system setting, the communication protocol, sample temperature, sample pressure, flow rate, errors or warnings. The simple menu structure will lead you to your required information.

Display your values individually in distinctive ways.



Integrated

Providing analytical precision and accuracy in measurement, considerable engineering and inventive skills are substantial. Hence its compact construction, the analyzer offers an outstanding performance in range and resolution. Due to a newly developed pump all components of the chemiluminescence detector fit into the carefully designed 4HE-housing. The 8-inch, HD-resoluted touchpanel guarantees a best possible visibility. A USB-connector is easily accessible in the front, in order to transfer stored data to a memory stick or any other ex-

ternal device. Hidden behind the lift able front panel lies the removable air filter package as the main consumable – focused on a user-friendly maintenance.



Numerous interfaces for gases, electrical signals and computers

Ideal

The measurement ranges of carefully configured CLDs cover up to a factor of five digits. Introducing nCLD SUPREME, this is the first instrument covering six digits of measurement ranges. In the past, applications with highly dynamic measuring ranges, such as pre- and post-catalyst measurements, required two analyzers. Today this task can be solved by one instrument: the nCLD SUPREME.

New modularity, intelligent compartments

ECO PHYSICS' newly developed modular concept combines corresponding compartments, where each holds its own intelligence. All modules are internally connected by a BUS communication system, which reduces the instruments' wiring and tubing to a minimum – taking maintenance and service friendliness to a whole new level. Each module comes with an own set of microprocessors and software drivers, in order to adaptively control and/or measure physical parameters, such as temperature, pressure and flow rate.

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 staff in R&D is inventing 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.



ECO PHYSICS