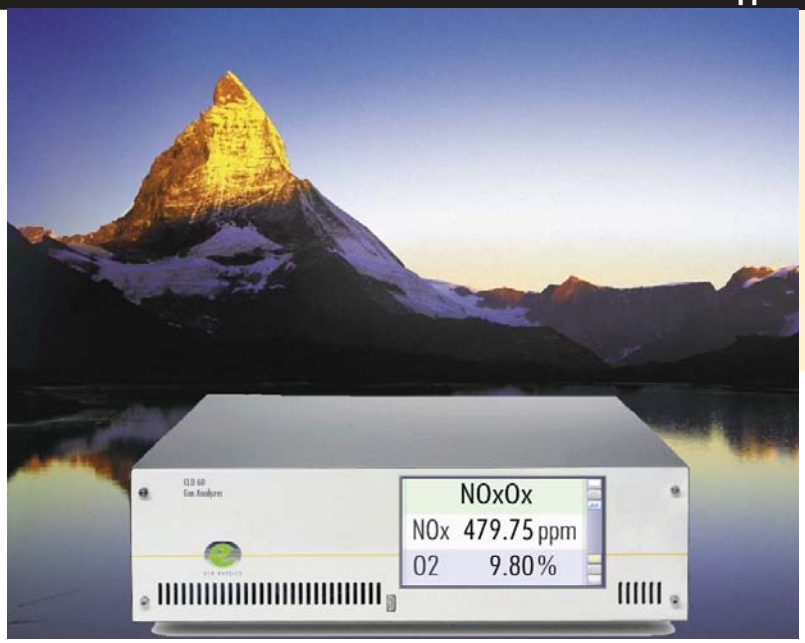
ECO PHYSICS **CLD 63 Ox**

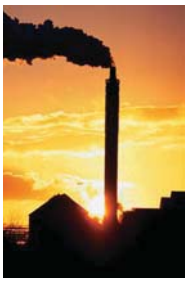
- *Compact design*
- *Internal ozone generator and scrubber*
- *Metal or steel converter for NO_X detection*
- *Four freely selectable measurement ranges*
- *Touch screen operation*
- *Mobile DC operation*



Application examples

- Stack emission measurement
- Permanent NOx and Oxygen monitoring
- Surveillance of ship engines
- Operation of boiler and burner
- Gas turbine installations

Nitrogen oxide emissions need the oxygen content as reference. This is what the new analyzer CLD 63 Ox from ECO PHYSICS is made for: It measures both concentrations at once! Chemiluminescence and paramagnetic detectors - the standard reference methods.



Stack emissions.

We tell you what you can save.

Your emissions will become more of a burden when your air pollution regulation will opt for an increase of the NOx tax. With this ECO PHYSICS monitor you will exactly know, what the cost will be. The analyzer is designed to measure the pollutant continuously, precise and reliable.

If your air pollution regulation requires reports on calibration history or status of the instrument, all information is readily available and stored.

Your instrument stores all the previous calibrations and it tracks all error and warning conditions.

Boiler and burner operation.

Economical solution

The CLD 63 Ox offers a two in one solution for series checks of NO_X and and oxygen in fixed or mobile stations. This analyzer is designed for all applications with an existing gas preconditioning unit to ensure quality control as well as keeping to threshold values.

Total NO_X is measured by steel or an optional metal converter.

User-friendliness

The development of an ECO PHYSICS analyzer always includes full user comfort. The user can adapt the operation according to his needs and applications by selection of predefined settings via touch screen or remotely from a PC.

Warning and error messages are displayed coded and in full text. The analyzer guides the user step by step to return to normal operation.

Maintenance simply means annual replacement of filters and membranes besides the consumables required by special sampling conditions.

Easy calibration

Calibration is quickly and automatically carried out. This extremely useful feature eliminates the potential risk of erroneous calibrations.

Compact and modular design

The CLD 63 Ox is the most compact unit of its class. Thanks to the totally modular layout and integrated ozone generator and scrubber it is designed for a multitude of applications.

TIER emission monitoring.

CLD 63 Ox

Specifications

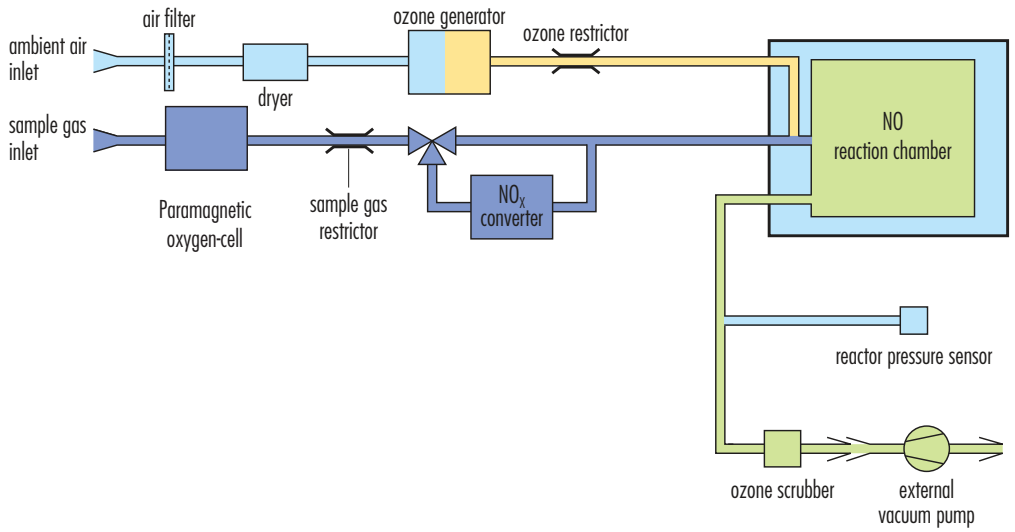
Measuring ranges	NOx: four freely selectable ranges from 0.5 to 500 ppm Oxygen: 0 - 25 %
Min. detectable concentration	0.05 ppm
Noise at zero point (1σ)	NO: 0.025 ppm Oxygen: 0.1 %
Lagtime	< 1 sec
Rise time (0–90%)	< 3 sec
Temperature range	10–40 °C
Humidity tolerance	5–95% rel. h (non-condensing, ambient air and sample gas)
Sample flow rate	0.3 l/min
Input pressure	ambient
Dry air use for O_3 generator	internally generated (no external supply gas required)
Power required	250 VA, external membrane pump 250 VA
Supply voltage	100–230 V/50–60 Hz, external power supply

Interface		RS 232, LAN
Analog output (optional)		4–20 mA into 500 Ω max.; 0–1 V; 0–10 V (for NO/NOx only)
Dimensions		height: 133 mm (5 1/4″) width: 430 mm (17″) depth: 455 mm (18″)
Weight		16 kg (35 lb) without pump
Delivery includes		CLD 63 Ox analyzer, external power supply, power cable, vaccum pump, operator's manual
Standard	CLD 63 Ox	NO_x and oxygen analyzer steel converter, LAN
Options	M	Metal converter
	IO	analog I/O interface (output for NO/NOx only)
	DC	24 V operation incl. DC vacuum pump
	R	rack mount slides
	F	inlet filter

Note: Noise at zero and detection limit depending on filter setting

ECO PHYSICS reserves the right to change these specifications without notice.

Flow diagram



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