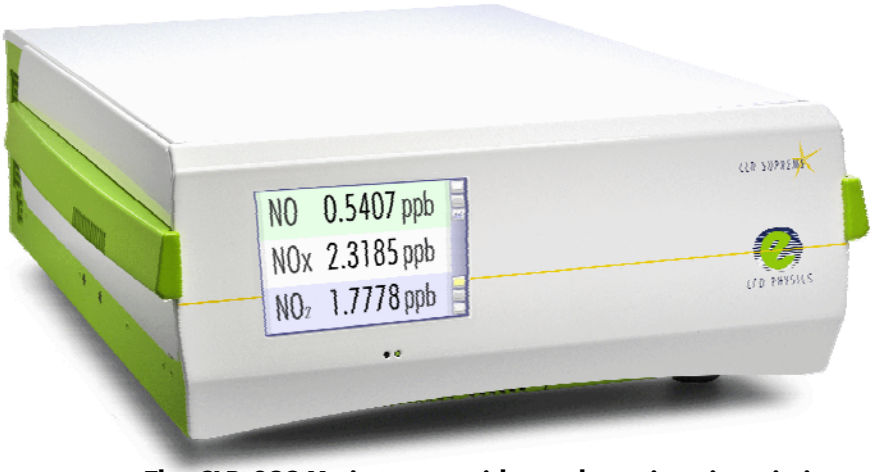
ECO PHYSICS **CLD 899 Y**

Application examples

- Precise ambient measurements
- Tropospheric research
- Long range transport
- Background ambient monitoring
- Flux measurements in rural areas

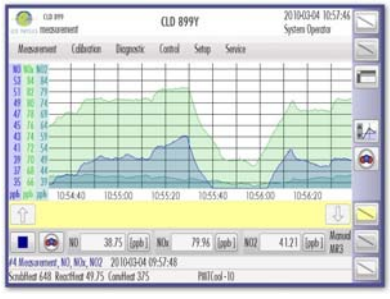


The CLD 899 Y nitrogen oxide analyzer is unique in its precision. It allows with the internal molybdenum converter or the external PLC 860 (CraNOx II system) the simultaneous measurement of NO and NO_2 concentrations even in the range of low parts per trillion!

Monitoring of ambient air quality.

When decimals are decisive.

The CLD 899 Y fulfills the requirements of many research groups specializing in detecting and monitoring smallest variations of NO, NOx and NO_2 concentrations. The instrument is especially designed for high altitude application. The lag time depends on the settings of the pre-chambers and can be reduced to seconds. The pre-chamber minimizes zero drift and cross sensitivity by other gases. This makes it ideally suited for ambient air monitoring.



Clearly structured and full graphical color display informs the user about all relevant data.

For specific NO_2 measurements the molybdenum converter may be replaced by the optionally available photolytic converter (PLOC). This would upgrade the device to a complete CraNOx II system, inclusive ozone analyzer and calibrator.

User friendliness.

The development of an ECO PHYSICS analyzer always requires full user comfort. The user can adapt the operation according to his needs by selection of predefined settings.

Compact and modular design.

The CLD 899 Y is the most comprehensive unit of its class. Thanks to the totally modular layout and the rich variety of options this analyzer is designed for a multitude of applications.

The use of first-rate components guarantees virtually service-free operation. Maintenance simply means annual replacement of filters and membranes besides the consumables required by special sampling conditions.

Unique graphical interface!

The new designed graphical user interface enables easy access to various functions by touch screen technology. Integrated user management and configuration menus guarantee maximum flexibility for custom specific needs. Warnings and error messages, as well as user guidance, are displayed for easy identification. Online data are displayed numerical and graphical. The operator may use standard settings or user specific options like zoom functions. A standard feature is the data logger function for up to one year storage capability.

- *Compact design without any additional space required*
- *Photolytic converter for NO_2 detection*
- *Pre-chamber to offset cross sensitivity*
- *Four freely selectable measurement ranges*
- *Operation and control via touch screen*

CLD 899 Y

Specifications

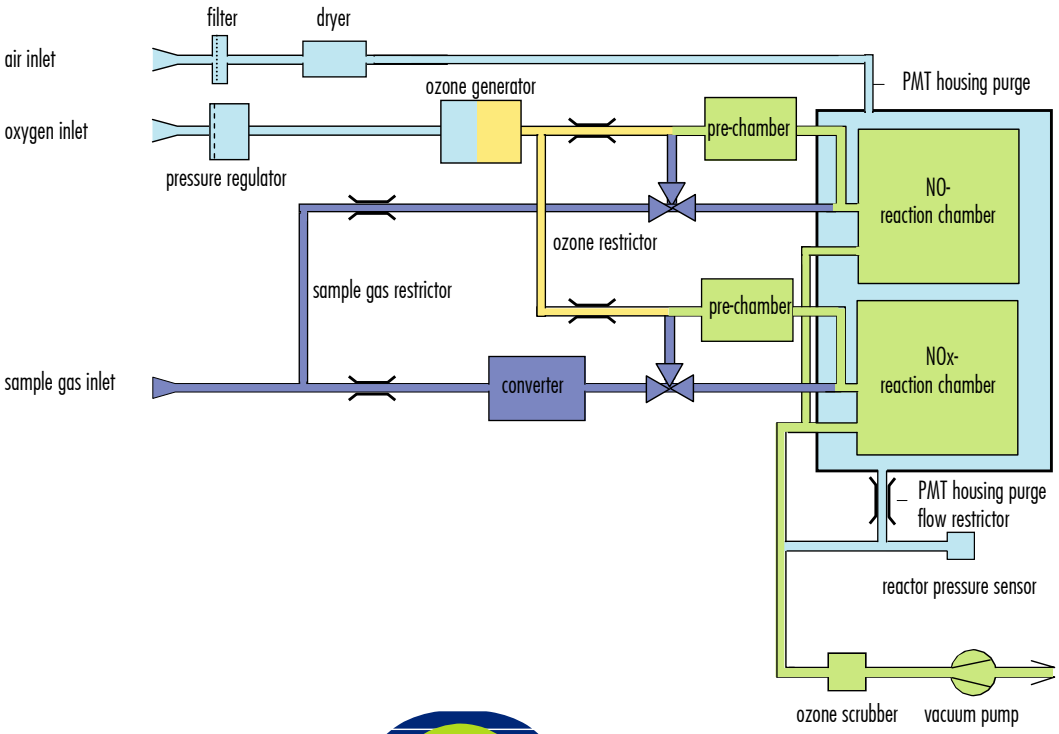
Measuring ranges	four freely selectable ranges from 1–1000 ppb
Min. detectable concentration	<0.025 ppb*
Noise at zero point (1 σ)	<0.01 ppb*
Lag time	< 3 sec
Rise time (0–90%)	<1 sec
Temperature range	5–40 °C
Humidity tolerance	5–95% rel. h (non-condensing, ambient air and sample gas)
Sample flow rate	0.7 l/min
Input pressure	ambient
Dry air flow rate	230 ml/min
Oxygen use for O_3 generator	200 ml/min
Power required	500 VA (incl. membrane pump and ozone scrubber)
Supply voltage	100–230 V/50–60 Hz
Interfaces	RS 232, LAN, keyboard, mouse, video out

Analog output		4–20 mA into 500 Ω max. 0–1 V; 0–10 V
Dimensions		height: 178 mm (7 ") width: 450 mm (19 ") with molding: 495 mm depth: 650 mm
Weight		45 kg
Delivery includes		CLD 899 Y analyzer, power cable, operator's manual
Standard	CLD 899 Y	pre-chambers molybdenum converter
Options	PLOC	CraNOx II system

** depending on filter setting*

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

Flow diagram



ECO PHYSICS

ECO PHYSICS INC. . 3915 Research Park Drive, Suite A-3 . ANN ARBOR, MI 48108-2200 . USA . Phone: (734) 998-1600 . Fax: (734) 998-1180

sales@ecophysics-us.com . www.ecophysics-us.com