ECO PHYSICS **CLD 86 CYp**

Application examples

- Measurement of N-containing compounds such as NO_X, NH_3 and amines
- Airquality monitoring around chemical and petrochemical plants
- Permanent monitoring of clean room conditions in R & D labs

The CLD 86 CY p is capable to measure NO_X, NH_3 and the total NO_X-amines! It allows the sequentual measurement of concentrations even in the range of parts per trillion!

Clean room laboratories require reliable and precise gas analysis.

When decimals are decisive.

The CLD 86 CY p fulfills the requirements of many research groups specializing in detecting and monitoring smallest variations of N-containing compounds such as NO_X, NH_3 and amines.

NH_3 measurement is accomplished by a sequential detection of NO_X and NO_X-amines. Thanks to its two converters with different characteristics measuring the NO_X and the total of NO_X-amines allows to determine the NH_3.

The pre-chamber (p) minimizes zero drift and cross sensitivity. This makes it ideally suited for areas with excellent air quality.

Display of NO_X-amines, and NH_3

User friendliness.

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

Compact and modular construction.

The CLD 86 CY p is the most compact 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.

A fascinating technology.

The analyzer is not only a state-of-the-art product in terms of precision and reliability. Its technological base also sets the trend for others. Naturally occurring pressure variations in the sample flow are balanced out by means of an electronic and mechanical bypass system (option r).

The heated inlet (option h) minimizes chemical alterations of the sample gas, e.g. salt formation with amines reduce the measured value of NH_3.

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.

- Four freely selectable measurement ranges between 50 ppb and 50000 ppb
- *Compact design without any additional space required*
- *Choice between several types and numbers of converters from 1 to 2 according to the application*
- *Pre-chamber to offset cross sensitivity*
- *Operation and control via keypad or personal computer*

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Specifications

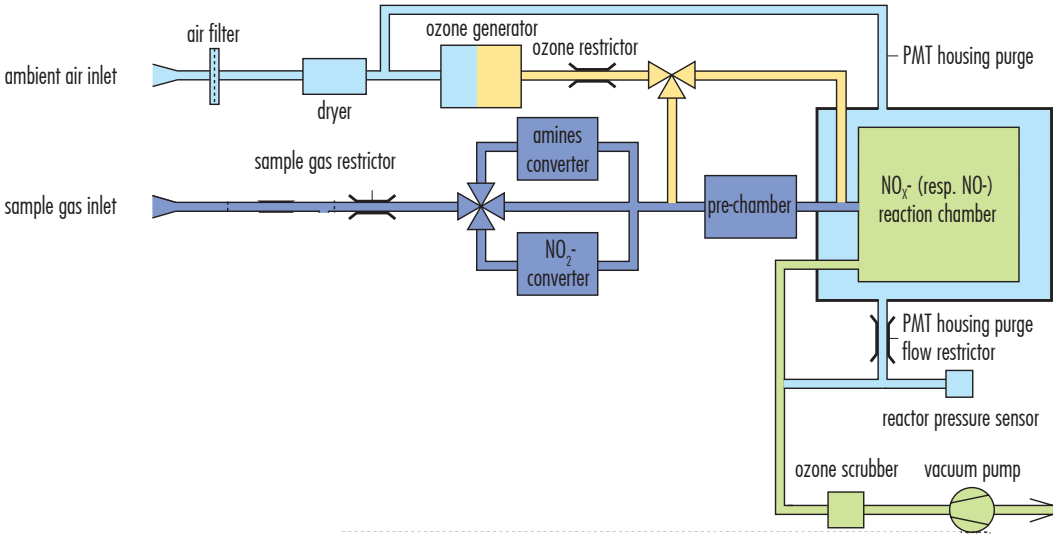
Measuring ranges	four freely selectable ranges from 50–50000 ppb
Min. detectable concentration	0.5 ppb*
Noise at zero point (1 σ)	0.25 ppb*
Lagtime	<1 sec
Rise time (0–90%)	<30 sec
Temperature range	5 - 40 °C
Humidity tolerance	5 - 95% rel. h (non-condensing, ambient air and sample gas)
Sample flow rate	1.2 l/min (0.3 l/min without option r)
Input pressure	to be externally stabilized within±3mbar
Dry air use for O_3 generator	internally generated (no external supply gas required)
Power required	400 VA (incl. membrane pump and ozone scrubber)
Supply voltage	90–250 V/50–60 Hz

Interface		RS 232
Analog output		4 - 20 mA into 500 Ω max.; 0 - 1 V; 0 - 10 V
Dimensions		height: 133 mm (5¼ ") width: 450 mm (19 ") with moulding: 495 mm depth: 545 mm
Weight		24 kg
Delivery includes		CLD86 CY p analyzer, power cable, analog signal cable, manual
Standard	CLD86 CY p	converter for amines and NO_2, pre-chamber (chemical zero)
Options	h	hot tubing

** depending on filter setting*

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

Flow diagram



ECO PHYSICS

ECO PHYSICS AG · POB 282 · CH-8635 DUERNTEN · TEL. ++41 55 220 22 22 · FAX ++41 55 220 22 55 · E-MAIL INFO@ECOPHYSICS.COM
INTERNET WWW.ECOPHYSICS.COM