ECO PHYSICS **CLD 844 CM hr**

Application examples

- Monitoring of process chemicals and gases
- Permanent monitoring of clean room conditions
- Control of air filter systems
- Process control such as photolithography, etching, etc.
- R&D of DeNOx devices

The CLD 844 CM hr is capable to measure and display NO, NO_2, NO_X, NH_3 and the total NO_X-amines! The heated inlet minimizes chemical alterations of the sample gas.

Two instead of one.

The CLD 844 CM hr analyzer is optimized for the measurement of N-containing compounds such as NO, NO_2, NH_3, NMP and amines.

The outstanding feature is the concept of two parallel reaction chambers. They guarantee simultaneous measurement of e.g. NO and NO_X in order to generate the precise value of NO_2.

Thanks to its two converter with different characteristics measuring NO_X and the total of NO_X-amines allows even to determine the NH_3. The required measurement mode can be selected via the keypad at the front panel.

The CLD 844 CM hr with slides is perfectly prepared for rack mounting.

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. All components are contained in a case of only 3 HU, including vacuum pump and thermal ozone scrubber.

Naturally occurring pressure variations in the sample flow are balanced out by means of an electronic and mechanical bypass system (r). This module is not required in systems with an external sample pressure regulation.

Due to the heated inlet (h) no external preconditioning is required. This minimizes chemical alterations of the sample gas, e.g. salt formation with amines reduce the measured value of NH_3.

Display of NO_X-amines, and NH_3

User friendliness is a top priority.

The analyzer can be operated by means of the integrated keypad or remotely from a personal computer. The clear layout of the menu structure guides the user and enables him to take advantage of all analyzer functions with simple commands.

- *Four freely selectable measurement ranges*
- *Choice between several measurement modes*
- *Error message coded and in full text*
- *Rapid system integration*
- *Virtually maintenance-free even in continuous operation.*

CLD 844 CM hr

Specifications

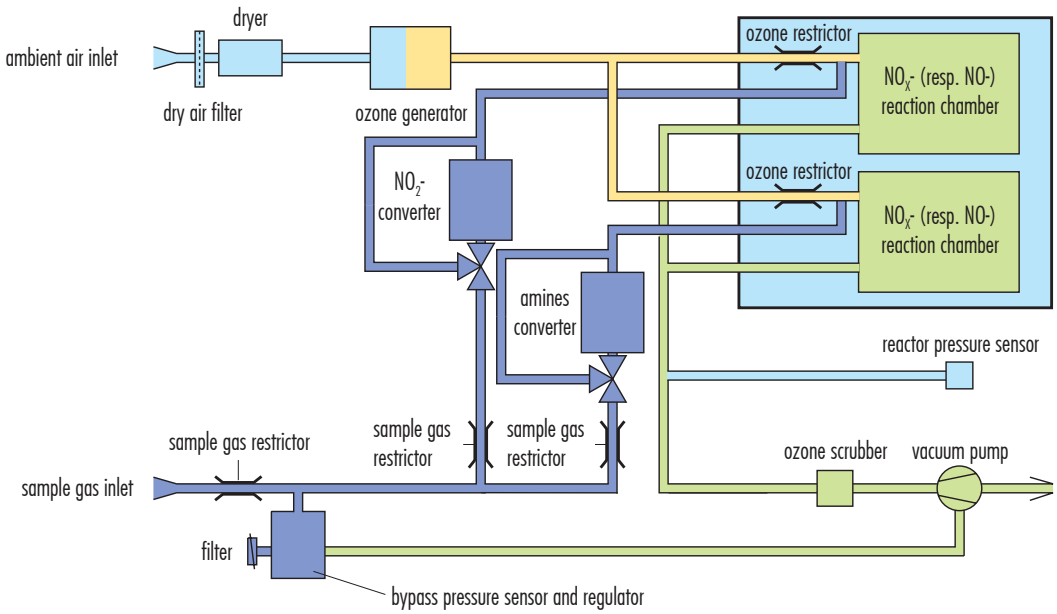
Measuring ranges	two freely selectable ranges from 0.5–500 ppm
Min. detectable concentration	0.025 ppm*
Noise at zero point (1 σ)	0.012 ppm*
Lagtime	<1 sec
Rise time (0–90%)	<1 sec
Temperature range	5–40 °C
Humidity tolerance	5–95% rel. h (non-condensing, ambient air and sample gas)
Quenching	for H_2O: <4%/vol.-% H_2O for CO_2: <1%/vol.-% CO_2
Sample flow rate	1.2 l/min (0.3 l/min without option r)
Input pressure	600–1200 mbar abs. (without option r to be externally stabilized within ±3 mbar)
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	100 – 230 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	26 kg
Delivery includes	CLD 844 CM hr analyzer, power cable, analog signal cable, manual
Standard CLD 844 CM hr	two converters for the measurement of amines and NO_2, electro-mechanical pressure regulator and heated gas inlet

** 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
WWW.ECOPHYSICS.COM