

# CLD 700 AL

Chemiluminescence Analyzer



The CLD 700 AL is at the heart of many measurement networks for monitoring air pollution. After stringent tests with the German TÜV the instrument has proved its outstanding monitoring characteristics. Even variable parameters such as air pressure or temperature do not restrict its use.



## We thought about everything.

The ECO PHYSICS CLD 700 AL is constructed on a modular principle. The combination of modularity and clearly laid-out gas flow result in an instrument which is very easy to service. The ozone scrubber, which operates thermally, needs no maintenance. If attention is needed elsewhere, the instrument provides clear indications—for example when the converter is exhausted. This can then be easily replaced. Cleaning the reaction chambers is equally simple: only a single screw has to be loosened.

## But above all we thought about you.

And therefore the CLD 700 AL is extremely easy to use: these are state-of-the-art instruments which



## Application examples.

Measurement of pollutants  
(fixed and mobile stations)  
Monitoring indoor air quality  
Personnel safety, TLV  
Medical applications

The CLD 700 AL is the ideal instrument for monitoring outdoor air quality, either in measurement vehicles or in fixed networks, and also for monitoring indoor air in production plants and offices (TLV=threshold limit value).

The ECO PHYSICS CRANOX systems are world leaders, giving information throughout Europe about the long range transport of nitrogen oxides [CRANOX locations in Europe for measurements in the parts per trillion (ppt) range are shown in the overview to the right].



support the user with a clear set of commands. Thus for example the full text of error messages can be called up. The instrument is operated either via the integral keypad or remotely from a PC. Therefore all instruments include an RS-232 serial interface as standard equipment.

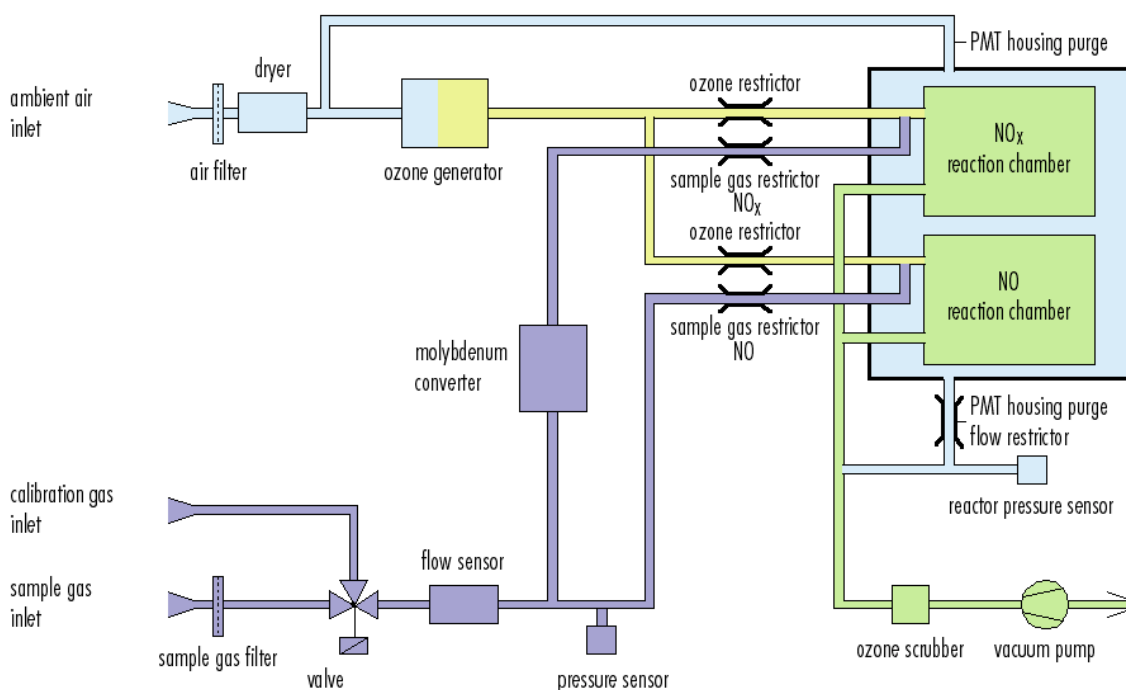
Your ECO PHYSICS dealer will be pleased to give you detailed information.

Source: TÜV Germany

## Specifications CLD 700 AL

<b>Measuring ranges:</b>	0–0.1/0–1/0–10/0–100 ppm (analog output adjustable) 0–0.05/0–0.5/0–5/ 0–50 ppm), NO <sub>2</sub> max. 1 ppm	<b>Supply voltage:</b>	230 V/50 Hz, 115 V/60 Hz (±10%)
<b>Minimum detectable concentration:</b>	0.001 ppm	<b>Interface:</b>	RS 232 (standard)
<b>Noise at zero point (1σ):</b>	0.0005 ppm	<b>Analog output:</b>	selectable 1 V/10 V into 500 kΩ min., 20 mA into 600 Ω max. (isolated)
<b>Zero drift:</b>	none	<b>Weight:</b>	23 kg
<b>Linearity (in range):</b>	±1% of full scale	<b>Dimensions:</b>	height: 133 mm (5 1/4"; 3 HU), with feet 158 mm (6 1/4") width: 483 mm (19") depth: 588 mm (23 1/8")
<b>Lagtime:</b>	7 sec	<b>Delivery includes:</b>	CLD 700 AL analyzer, membrane vacuum pump, ozone scrubber, power cables, RS-232-cable, analog signal cable, tubing, manual
<b>Rise time 0–90%:</b>	2–100 sec (range dependent)		
<b>Temperature range:</b>	10–40°C		
<b>Humidity tolerance:</b>	5–95% rel. h (non-condensing, ambient air and sample gas)		
<b>Sample flow rate:</b>	0.7 l/min		
<b>Dry air use (for O<sub>3</sub> generator):</b>	0.35 l/min		
<b>Power required:</b>	530 VA (incl. membrane pump and ozone scrubber)	<i>ECO PHYSICS reserves the right to change these specifications without notice (2009).</i>	

## Flow diagram CLD 700 AL



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