ECO PHYSICS CLD 822 S hr



The solution for simultaneously measured NO and NO_x has got a name: CLD 822 S hr. The heated inlet copes with hot and humid gas samples – no gas cooler required!



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. The integrated hot

tubing (h) allows the direct

A fascinating technology.

measurement of hot and moist gases. An external preconditioning of the sample gas is not required. Naturally occurring pressure variations in the sample flow are balanced out by means of an electronic and mechanical bypass system (r).

Many options can be integrated without any problem to satisfy the need for nonstandardized applications. The advantage of compact design: the CLD 822 S hr includes everything inside the case – even the vacuum pump and the ozone scrubber.

Two instead of one.

The CLD 822 S hr nitrogen oxide analyzer is optimized for its use in systems which require reliable NO_2 measurements or the control of two sample gases in parallel.

The concept with two parallel reaction chambers allows the simultaneous measurement of NO and NO_x in order to generate the precise value of NO_2 .



The CLD 822 S hr with slides is perfectly prepared for rack mounting

The analyzer is capable of coping with two separate measurement tasks. This may include the task of comparing the values at the inlet and the outlet of a process or the direct comparison of two independent samples. The analyzer simply requires a dual inlet feature option (d) and one additional converter.

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. Integrating the analyzer in larger systems is possible by including runners in the standard chassis design.

Four freely selectable measurement ranges [with option (d) two per channel]

Application examples

Burners and boilers

authorities DeNOx plants

Tobacco industry

Manufacturers of gas turbines Certification and calibration

Refining of fuels and lubricants

Research and development

- Choice between several types and numbers of converters from 0 to 2 according to the application
- Error messages coded and in full text
- Rapid system integration
- Virtually maintenance-free even in continuous operation

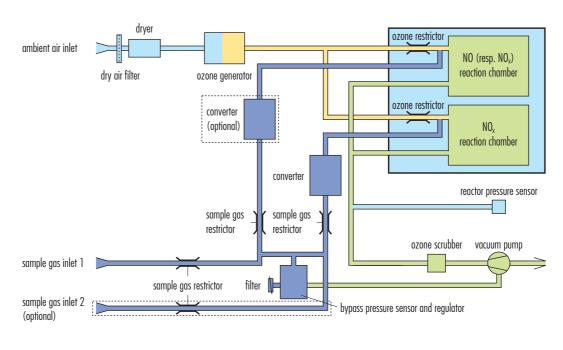


Specifications

CLD 822 S hr

Measuring ranges	four freely selectable ranges from 5–5000 ppm, with option d two per channel	Supply voltage Interface Analog output	100 – 230 V / 50 – 60 Hz RS 232 4–20 mA into 500 Ω max.;
Min. detectable concentration	0.25 ppm*	0 /	0-1 V; 0-10 V
Noise at zero point (1 ₀)	0.125 ppm*	Dimensions	height: 133 mm (5¹/₄″)
Lagtime	<1 sec		width: 450 mm (19") with moulding: 495 mm
Rise time (0–90%)	<1 sec		depth: 545 mm
Temperature range	5–40 °C	Weight	26 kg
Humidity tolerance	5–95% rel. h (noncondensing, ambient air and sample gas)	Delivery includes	CLD 822 S hr analyzer, power cable, analog signal cable, manual
Quenching (with gas cooler)	for H ₂ O: <1.5% of meas. value for CO ₂ : <0.3%/vol% CO ₂	Standard CLD 822 S hr	steel converter, hot tubing and electromechanical pressure
Sample flow rate	1.2 l/min		regulation
	(0.1 l/min without option r)	Options M	metal converter
Input pressure	600–1200 mbar abs. (without option r to be externally stabilized within ± 3 mbar)	d	dual sample gas inlet
		MM d	dual channel NO _x /NO _x
Dry air use for O ₃ generator	internally generated (no external supply gas required)	* depending on filter setting	
Power required	400 VA (incl. membrane pump and ozone scrubber)	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