

Burners **Energy supply** Certification and calibration authorities DeNOx plants Cement producers Refineries Tobacco industry

Research and development

The solution for simultaneously measured NO and NO_x has got a name: nCLD 822 M r. This analyzer even offers the possibility to measure two separate sources – a unique option!



Two instead of one.

The nCLD 822 Mr nitrogen oxide analyzer is optimized for its use in systems which include gas sampling equipment measure different samples parallel.

The outstanding feature is the concept of two parallel reaction chambers. They guarantee simultaneous measurement of NO and NOX in order to generate the sample pressure regulation. precise value of NO2.

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

A fascinating technology.

The analyzer is not only a state-of-theart 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. This module option (r) is not required in systems with an external



All external connections are hidden but easily accessible from the rear.

Many options can be integrated without any problem to satisfy the need for non-standardized applications. The advantage of compact design: the nCLD 822 Mr includes everything inside the case - even the vacuum pump and the ozone scrubber.

User friendliness is a top priority.

The "GUI - Graphical User Interface" enables the user to take advantage of all the features and functions of the analyzer and control it by means of the integrated 8-inch color touchscreen. The instrument's settings, the accessibility and the data management can be individually configured. The operator guidance is easy understandable and provides a help function at any times.

- Four freely selectable meas urement ranges [with option (d) two per channel]
- Choice between several types and numbers of converters from 0 to 2 according to the application
- Error message coded and in full text
- Rapid system integration
- Virtually maintenance-free even in continuous operation.

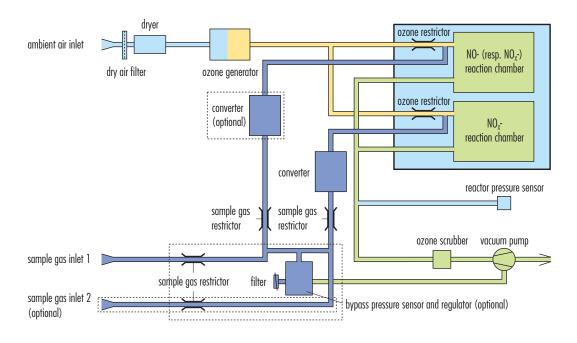


Specifications

nCLD 822 M r

| Measuring ranges | four freely selectable ranges from 5–5000 ppm, with option d two per channel | Supply voltage Interface | | 100 – 230 V / 50 – 60 Hz USB (2x), HDMI, RS232, Bluetooth, LAN, WLAN |
|--|--|---|--------------|--|
| Min. detectable concentration | 0.25 ppm* | Optional | | analog output with ext. box |
| Noise at zero point (1 σ) | 0.125 ppm* | | | 4-20 mA; 0-1 V; 0-10 V |
| Lagtime | <1 sec | Dimensions | | height: 133 mm (51/4") width: 450 mm (19") with moulding: 495 mm depth: 540 mm (21.2") |
| Rise time (0-90%) | <1 sec | | | |
| Temperature range | 5-40 °C | | | |
| Humidity tolerance | 5–95% rel. h (non-condensing, ambient air and sample gas) | Weight | | 23 kg (51 lb) |
| | | Delivery includes | | nCLD 822 M r analyzer, power cable, LAN connector, USB to RS232 converter ca- ble, manual |
| Quenching (with gas cooler) | for H_2O : <1.5% of meas. value for CO_2 : <0.3%/vol% CO_2 | | | |
| Sample flow rate | 1.2 l/min (0.1 l/min without option r) | Standard | nCLD 822 M r | metal converter and electromechanical pressure regulation steel converter |
| Input pressure | 600-1200 mbar abs. (without option r to be externally stabilized within ±3 mbar) | Options | S | |
| Dry air use for O ₃ generator | internally generated (no external supply gas required) | d | | dual sample gas inlet |
| | | | MM d | dual channel NO _x /NO _x |
| Power required | 400 VA (incl. membrane pump and ozone scrubber) | * depending on filter setting | | |
| | | ECO PHYSICS reserves the right to change these specifications without | | |

Flow diagram



notice.

