The nCLD 844 M analyzer is the next generation in two-channel high precision nitrogen oxide measurement. Unique in speed and reliability, the nCLD 844 M is modular designed and capable of simultaneously measuring NO, NO\textsubscript{x}, and NO\textsubscript{2}. The analyzers expandable capabilities allow assessment of hot and humid gas sources without additional cooler. It features a dual inlet option for evaluation of two different sources at once. The new and intuitive graphical user interface “GUI” also individually displays and connects to other instruments’ data.

**Convenient and Highly Precise**

The nCLD 844 M dual channel NO, NO\textsubscript{x}, and NO\textsubscript{2} analyzer is designed for all applications with an existing gas preconditioning unit for ensuring quality control as well as keeping within threshold values. The optional hot tubing allows direct analysis of hot and moist sources without preconditioning unit and the optional electro-mechanical bypass system balances out pressure variations in the sample flow. Furthermore, the analyzer is adaptable to numerous non-standardized applications. Dual sample gas inlet is an option that allows measuring two different sources simultaneously, enabling comparison. Calibration and adjustment runs quick and automatically.

**User Friendliness with “GUI”**

The new touch sensitive graphical user interface “GUI” enables the user to individually adjust the instrument operation and data management according to his/her needs and applications. The bright 8” monitor gives a clear overview and allows numerical and graphical display of values. Multiple digital in- and outputs guarantee a maximal connectivity and flexibility for the remote operation, control and maintenance of the nCLD 844 M.

**Compact, Modular and Intelligent!**

The nCLD 844 M is manufactured in a new compact and modular layout, in which each essential component of the chemiluminescence analyzer hosts its own CPU and interacts with other CPUs by BUS-communication. This assembly increases accessibility and serviceability by reducing wiring and piping. The measurement principle conforms to the standard method for NO\textsubscript{x}-detection in stationary source emissions (EN 14792).
SPECIFICATIONS

nCLD 844 M

Measuring ranges
four freely selectable ranges
from 0.5 ppm - 500 ppm
with dual sample inlet: two per channel

Min. detectable concentration* 0.025 ppm
Noise at zero point (1σ)* 0.0125 ppm
Lag time <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)
Sample flow rate 0.3 l/min. (1.2 l/min with pressure regulation)
Input pressure ambient ext. stabilized within ±3 mbar (600–1200 mbar abs. with pressure regulation)
Dry air use for O₃ 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 USB(2x), HDMI, Bluetooth, RS232 (w/o 9pin connector), LAN, WLAN
Dimensions height: 133 mm (5 ½ ”)
width: 450 mm (19 ”)
with molding: 495 mm depth: 540 mm (21 2 ’’)
Weight 23 kg (51 lb)
Delivery includes nCLD 844 M analyzer, power cable, FTDI-RS232-USB cable, USB-LAN adapter, manual

Standard nCLD 844 M metal converter
Options · hot tubing
· electro-mechanical pressure regulation
· cal gas inlet
· dual sample gas inlet
· steel converter
· dual channel NOₓ/NOₓ
· USB-RS232 9pin connector
Analog output · 0 - 10 V/4 - 20 mA into 500 Ω max. (External Box)

Measuring ranges* depending on filter setting
ECO PHYSICS reserves the right to change these specifications without notice.

FLOW DIAGRAM

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