

Chemiluminescent Nitrogen Oxides Analyzer

AC32M









2M Series analyzer:

- Ultra compact and light rack 3U
- Single chamber technology
- Modular design
- SMD enhanced electronics
- High precision metrology
- Enhanced data logging functions
- Complies with ISO 7996, EN 14211and VDI 4202

Reduced maintenance:

- New converter oven with interchangeable cartridges (2 year life time)
- Ease and accessibility of components
- Traceability of parts and consumables
- Remote maintenance and telediagnostics



CONTACT remote control software

EXCLUSIVE FEATURES:

- Monitoring of low levels of NO, NO₂ and NOx from 0.4 ppb to 20 ppm
- Type approvals:
 - TÜV report n° 936/21205818/C (Germany),
 - US EPA n°RFNA-0202-146 (USA)
- Graphic Liquid Crystal (LCD) display
- Interactive menu-driven software with enhanced speed display
- Real-time synoptic flow diagram display
- User programmable ranges and average times
- Auto-ranging
- Automatic response time
- Real time calibration graph
- User programmable ranges and average times
- Built-in serial interface (RS 232 / RS 422)
- Built-in storage of 1 month average data
 (up to 6 months with the optional memory extension)
- Full remote emulation of the analyzer

APPLICATIONS:

- Ambient air monitoring
- Indoor air monitoring
- Mobile laboratory
- NO₂ measurement in medical gases
- Continuous emissions monitoring (CEM) by dilution extraction

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SPECIFICATIONS:

- or user selectable ranges
- Autoranging between two user specified ranges
- Noise: 0.2 ppb
- Lower detectable limit: 0.4 ppb
- Response time : automatic and programmable (minimum 30 sec)
- Zero drift: < 0.5 ppb / 24 h & 1 ppb / 7 days</p>
- Span drift: < 0.5 % / 24 h \$ 1 % / 7 days</p>
- Linearity: ± 1 % of F.S.
- Sample flow rate: 0.7 lpm
- Ozone flow rate: 0.06 lpm
- Averaging time: programmable from 1 min to 24 hours
- Data storage: more than 1 month (1/4 h data)
- External sample pump with zero air scrubber
- Chassis: 19» rack mountable, 3U
- Dimensions: 545 x 483 x 133 mm (L x W x H)
- Weight: 13 kg (28.7 lbs), without pump
- Power: 115 V, 60 Hz 230 V, 50 Hz
- Power consumption: 250 VA
- Operating temperature : 5 40 °C
- Digital output: 2 RS 232 or RS 422 ports
- PVDF sample filter holder

Options:

- Memory extension
- Ethernet network connection
- ESTEL electronic board (1 or 2) with:
 - 4 independent analog inputs
 - 4 independent analog outputs
 - 4 remote control inputs
 - 6 dry contacts outputs
- SOREL electronic board with:
 - 4 dry contacts outputs
 - 4 dry contacts inputs
- Valves block for selection of external zero and
- Built-in permeation bench with NO₂ tube
- External converter for NH₃ monitoring (see special leaflet)
- Sample dryer
- Tight box version also available

PRINCIPLE OF OPERATION:

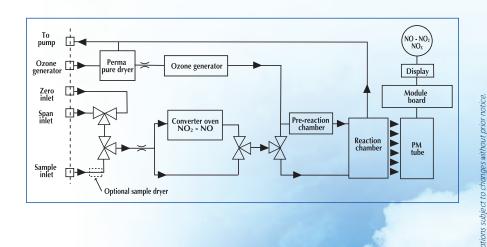
Ranges: 0-0.05/0.1/0.2/0.5/1/2/5/10/20 ppm The new Chemiluminescent NO-NO₂-NOX analyzer, model AC32M, combines our 30 years of experience with its predecessors AC30M & AC31M, with an enhanced electronics package and a modular component parts design.

> The outcome is an ultra compact and light-rack 3U, easy-to-use, chemiluminescence based analyzer capable of measuring nitrogen oxides at ppb levels. Applied to nitrogen oxides measurement, Chemiluminescence corresponds to an oxidation of NO molecules by O_2 molecules. The return to a fundamental electronic state of the excited NO_2 molecules is made by luminous radiation, detected by the PM tube.

> Model AC32M is a state-of-the-art single chamber, single photomultiplier tube design which automatically cycles between the NO and NOX modes. It was developed to meet the customer's requirement for reduced and easier maintenance with high metrology. It combines a powerful, easy-to-use interface with quality components and design technology.

> Real-time calibration graphs can be displayed during span check operation. Multi-tasking software, combined with the LCD graphic display, gives a user-friendly access to the instrument set-up, as well as the status and maintenance parameters. Real-time synoptic, autodiagnostic and maintenance data screens can be displayed while the instrument is operating. The new electronics allow enhanced data storage of more than one month of 15 minute averages, and total remote troubleshooting diagnostic capabilities via modem, using the analyzer's complete display and functions emulation.

> Equipped with the optional ESTEL I/O analog & digital board, the AC32M can be easily interfaced with other equipment and can be operated as a stand alone unit able to store several months of data.





Distributed by

AC32M tight box version







