

NO-NO₂-NO_x Chemiluminescent NO_x Analyser MODEL NOX 2000 G

FRENCH STANDARD AFNOR X 43.018



AMBIENT AIR

Series 2000 G is a line of ambient air analysers using the same printed circuit boards. "Physics" measurement principles associated to digital electronics designed around a 16-bits microprocessor gives the operator the necessary security for the monitoring and control of our environment.

ANALYSER ENSURING ENVIRONMENTAL PROTECTION

The NO_x 2000 G is an advanced design analyser that incorporates the latest achievements in continuous NO/NO₂ measurement.

- A 4 x 40 character digital display and 16-keyboard permit a dialogue between operator and analyser. Several menus are available for maintenance aid, calibration, zeroing...
- Continuous microprocessor self-diagnostic with display and remote transmission
- Digital signal processing. This new and advanced design improves accuracy while maintaining a very short response time.
- Internal measurement storage memory with data transfer to computer or printer via RS 232 C output.

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ANALYSERS

AIR QUALITY UNDER STRICT SURVEILLANCE

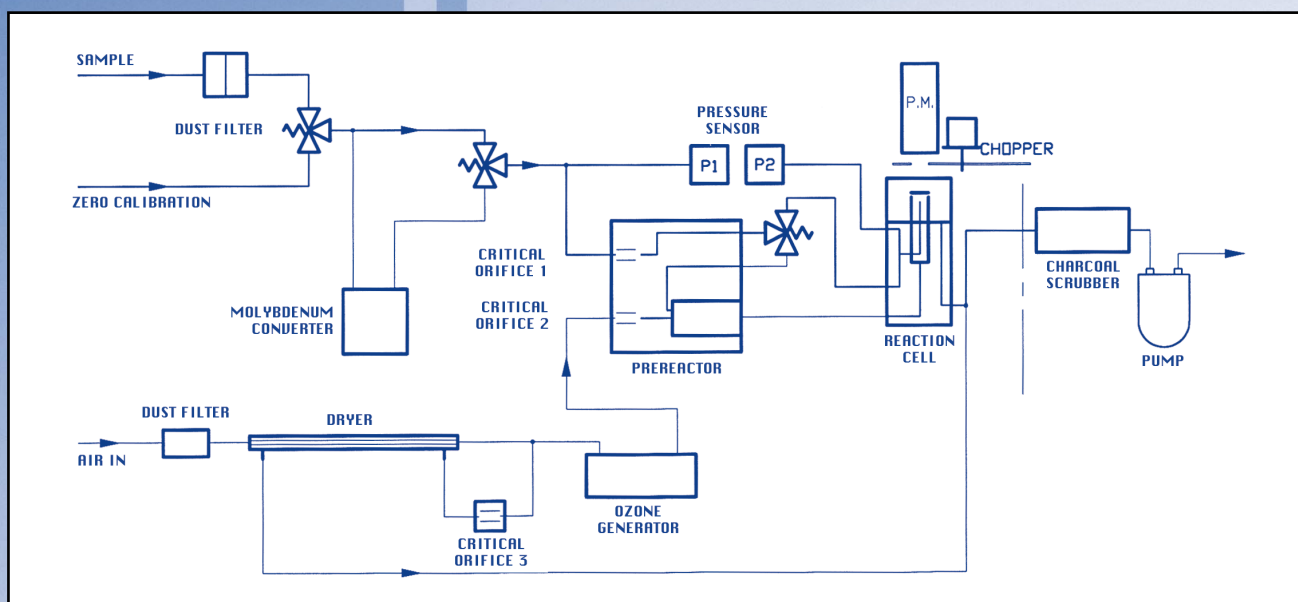
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PRINCIPLE

Every 80 s. the sample is switched in a pre-reactor before entering the reaction cell. The whole NO is oxydized before measurement providing dynamic zero compensation. Such a device eliminates the need of zero adjustments while reducing interference from hydrocarbons and fluorescence of the reaction cell.

An adaptative digital filter allows fast response for rapidly changing NO_x levels while providing a quiet signal for steady state conditions. The 16 bits micro processor calculates continuous mean values and eliminates many of the difficulties as negative NO₂ common to previous single channel NO_x analysers.



TECHNICAL SPECIFICATIONS

- **Ranges** : 0.1 - 0.5 - 1 - 5 - 10 - 20 ppm
- **Lower detectable limit** : < 1 ppb.
- **Response time** : 45s for 90% change.
- **Zero drift** : < 1 ppb per week.
- **Span drift** : < 1 % per week.
- **Linearity** : ± 1 % Full Scale.
- **Temperature range** : 0 - 40° C.
- **Humidity** : 0 - 96 % non condensing.
- **Power consumption** : 450 VA
- **Power supply** : 220 V / 50 Hz.
- **Mounting** : rack 19", 4 U, H = 180 mm, W = 480 mm, D = 550 mm
- **Weight** : 18 Kg + pump.
- **External sampling pump** : flowrate=30 l/h.
- **Standard solenoid valves** for span and zero (can be remote control).

- **Continuous** measurement of NO, NO₂ or NO_x, time, pressure, flow, range and offset
- **Ozone** supplied by "PERMA-PURE" air dryer.
- **Analog outputs** : 4 - 20 mA with galvanic insulation (other outputs on request).
- **Digital outputs** : RS 232 C Ports with status.
- **Printer** interface.

SPECIFICATIONS ARE PER US E.P.A. AND GERMAN U.B.A. TEST CRITERIA. ALL US E.P.A. SPECIFICATIONS EXCEEDED.

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360, RUE LOUIS DE BROGLIE. LA DURANNE - BP 87000 - 13793 AIX-EN-PROVENCE CEDEX 3 - FRANCE

TÉL. (33) 04 42 97 37 37 - FAX (33) 04 42 97 30 30

INTERNET : www.seres-france.com - E-MAIL : seres-france@seres-france.com