

Customer care : From 9 am to 6 pm, we are at your disposal for service gas analyser / software / computer / maintenance and calibration.

To receive regularly our news send your email at info@chromatotec.com

Issue – January 2006

Visit our booth C2, Hall Albinoni 1



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Special issue Analyse Industrielle 2006

Chromatotec Group: manufacturer & seller of analysers on niche markets. The alliance of 3 companies representing 3 technologies devoted to monitoring, quality control and analysis of gas & air.

Airmotec – Chromato-Sud – Medor

The capacities of its instruments spread nevertheless on a wide range of applications from sulfur analysis in natural gas to BTEX detection in ambient air.

Discover in this January issue!

- TRS MEDOR
- airmo H-CHO
- VistaCHROM: Automations module

Our instruments are in permanent evolution according to technical progress, like our new analyser presentation with integrated PC, but also according to the market's demands and environmental norms.

TRS application

Introduced is the TRS MEDOR for the measurement of **volatile Total Reduced Sulphur compounds** in ambient air with applications in **waste water plants and landfill**. **Cost effective, easy on site start up**, TRS MEDOR provides accurate measuring results in 5 minutes with communication protocol, alarms and multiplexer.



European certification

In 2006 the **airTOXIC PID analyser** receives, from a European organisation dedicated to research development, the accreditation for the analysis of 5 products B T E X.



We recall that the analyser **airmoBTX 1000**, with its FID detector system, is the only instrument that received the DIN 33963 norm parts I & II approved by the TÜV laboratory for the analysis of BTEX.

Measurement of Aldehydes in ambient air by airmo H-CHO

Aldehydes are COV's present in the environment. Naturally emitted, they also come from human activity. Known as being odorant, their **effects on health** have not been totally identified yet. However, it has been proven that they are irritating for **mucous membranes**, especially those of respiratory tracts (nose, lungs). The main **aldehydes met in ambient air** are **formaldehyde (HCHO)** and the aldehydes emitted by exhaust fumes such as **acetaldehyde (CH3CHO)**.

Taking into account the harmful effects of these products on health and their important part in photochemical pollution, it seems interesting to **measure and monitor** the aldehydes content observed in ambient air.

The **airmoH-CHO** is dedicated to the measurement of formaldehyde and acetaldehyde:

airmo H-CHO

Environment
Urban and non urban pollution control
Measurement of indoor air
PAMS /CE analysis
Plant proximity

Toxicity
Measurement of Aldehydes in the quality control of CO₂ used in food industry

Process
Industrial hygiene
Fence line

EXHIBITIONS 2006

ANALYSE INDUSTRIELLE – PARIS-LA DEFENSE
31 January – 2 February 2006
<http://www.mci-salons.fr/ai>

ARAB LAB – DUBAI
13 – 16 February 2006
<http://www.arablab.com>

ACHEMA – FRANKFURT
15 – 19 May 2006
<http://www.achema.de>

AWMA – NEW ORLEANS
20 – 22 June 2006
<http://www.awma.org>

VistaCHROM Automations modules

- Statistics calculation
- Calculation of rolling averages
- Filing
- Alarms monitoring
- I/O monitoring
- GC monitoring (default analyser)

Three airMOzone applications

1-Atmosphere pollution

Application : analysis of the ozone precursors VOC

- Our system airMOzone **C2 – C12** allows to analyse the VOC thanks - the **calibration system** with a bottle or permeation,
- a **H₂ generator**,
- **Integrated LCD computer** with our own operation software **Vistachrom**
- **Airmopump sampling**
- **Peltier effect**: instead of the Vortex system with the compressor (noise and bulky); we set up the Effet Pelletier that allows cooling t the trap for light

2 - VOC detection in the petrochemical field (BTEx included)

Application : How to measure the following components in a **Air Quality Monitoring Station** for a petrochemical complex ?

Our AirMOzone with special application can **detect :**
carbon tetrachloride, acrolein, Formaldehyde, Acetaldehyde, 1,2 dichloroethane, chloroform, 1,1,2 Trichloroethane at a **ppb level** with :

- internal permeation calibration
- Methaniser
- Rack mounted PC
- Zero air generator



SASOL, South Africa



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3- Detection of C3 to C12 in the clean air room

Application: detection of the **organic solvents in the clean air room** for cleaning up electronic card in a clean air room Outside the usual VOC component, (BTEx) our airMOzone can also analyse organic solvents: like aldehyde / Alcohol /ketones (special application)

Result: air improved monitoring with a daily result, validation, analysis follow up



→ **Multiplexer**

→ **Supervisor**

→ **airMOVOC C6-C12**

→ **airMOVOC C2-C6**

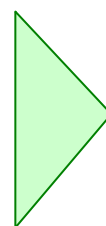
→ **H₂ generator**

→ **airMOPURE & airMOPUMP**

AirMOzone System with its supervisor in 5U and its multiplexer (Réf: A52000)

4- The airMOzone system travels!

According to the international demand of the market we sell our airMOzone system all around the world. However, the airMOzone does not only travel in wooden boxes! It is also possible to install the system in a van and to create a mobile laboratory as it has been done in Taiwan.



Chromatotec markets

Our group allows to propose global solutions in order to meet each requirement of our customers in the sectors of :

- **ambient air**
- **natural gas**
- **emission**
- **process**
- **industrial air**
- **technical gases**