

Customer care : from 9 am to 6 pm, our commercial and technical team is at your disposal for service gas analyser / software / computer/ maintenance and calibration.
To receive our news send your email to info@chromatotec.com

Issue – November 2005

Chromatotec Bulletin

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POLLUTEC 2005 **L'industrie au service de l'environnement**

Chromatotec group is a manufacturer and a seller of gas and air analysers oriented towards niche markets.

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 november 2005 issue our newly born instruments, applications or innovations!

- TRS MEDOR
- VistaCHROM evolution:
Automations module
- airmo HCHO

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.

News 2005

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



News 2005

VistaCHROM news **Automations modules**

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

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 HCHO

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 2005 - 2006

BCEIA – BEIJING
20 -23 October 2005
 Beijing Exhibition Center
<http://bceia.instrument.com.cn>

POLLUTEC – PARIS-NORD VILLEPINTE
29 November – 2 December 2005
[http:// www. Pollutec.com](http://www.Pollutec.com)

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>

European Certification

The **airmoBTX 1000**, with its FID detector, is the only instrument that has received the DIN 33963 part I and II approval by TÜV laboratory for BTEX analysis.



Today our **airTOXIC PID** is about to also receive from a European Institute of Certification a European norm which should be effective by the end of the year 2005.

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**
- **Pelletier effect**: instead of the Vortex system with the compressor (noise and bulky); we set up the Effet Pelletier that allows cooling the trap for light components



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 :

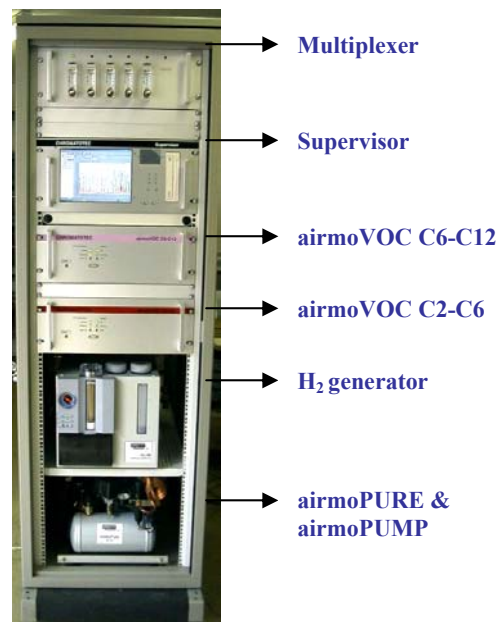
- internal permeation calibration
- Methaniser
- Rack mounted PC
- Zero air generator

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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)

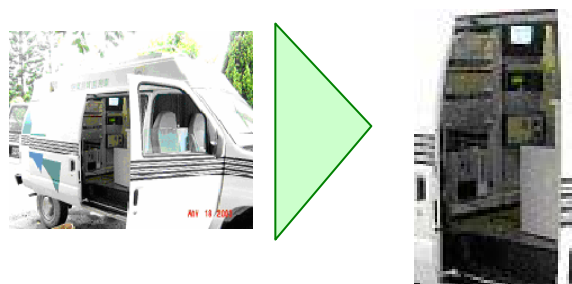
Result: air improved monitoring with a daily result, validation, analysis follow up



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's 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**