

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

To receive our news send your email to [info@chromatotec.com](mailto:info@chromatotec.com)

## Chromatotec Newsletter

Issue – November 2006

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### POLLUTEC 2006 Industry at the service of the environment

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

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

Our instruments are in constant evolution following technical progress, such as our analyser presentation with integrated computer ; but also according to the demands of the domestic and international market and environmental norms.

#### Leader products:

- AIRMOBTX
- AIRTOXIC
- TRSMEDOR
- ENERGYMEDOR

### Chromatotec markets

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

- Ambient Air Monitoring (outdoor)
- Industrial air monitoring (indoor)
- Pure gases / Gas Manufacturers
- Natural gases / LPG
- Emission and CEM
- Process



Available from November 23rd



### Measurement of Aldehydes in ambient air by airmoHCHO

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 airmoHCHO** 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 CO<sub>2</sub> used in food industry

##### **Process**

Industrial hygiene  
Fence line

The improvement of the **airmoHCHO** analyser has been developped with the **financial support of the Conseil Régional d'Aquitaine - France**



Technical conference on Air Quality  
at Aramco Research & Development Technical  
Exchange Center, Dhahran (Saudi Arabia)

Thanks to our partnership with the Saudi Arabian company Al Sinan & Partner For Trading Co. Mr Franck Amiet is attending the technical conference on Air Quality on November 27th-28th, 2006 at Aramco Research & Development Technical Exchange Center, in Dhahran. Saudi Aramco is an international petroleum company with very large oil reserves. The organisation of such a conference is in relation to its deep involvement in the protection of the environment.

During the event Mr Amiet will be holding his conference on air quality monitoring entitled Automated on-line monitoring of VOC at ppb level "airmOzone BTX included".

### TRS applications

The TRSMEDOR is an instrument dedicated to the measurement of **Total Reduced Sulphur compounds** in **ambient air** with applications in **waste water treatment** and **landfills**.

**Economical and easy to use**, the TRSMEDOR gives accurate and fast results within 5 minutes.



This system can be declined also from the most simple to the most complete configuration from single rack to complete cabinet.

Example of configuration for complete cabinet TRSMEDOR

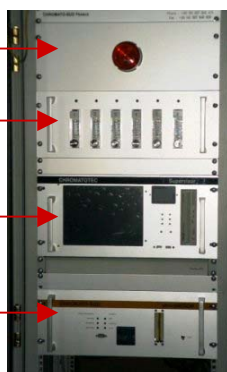
- ✦ TRSMEDOR analyser
- ✦ Supervisor 19" in 5U rack with LCD screen
- ✦ Communication protocole airmoCOM
- ✦ 6-stream-multiplexer 19" rack (according to the number of sampling points)
- ✦ Zero air generator 45 psi airmoPURE
- ✦ Driver alarms and calculation
- ✦ All instruments installed in a cabinet (can be air conditioned)

Rotating light  
linked to a Driver  
alarms

Multiplexer

Supervisor

GC



### VistaCHROM software Automations modules

- Statistics calculation
- Calculation of rolling averages
- Filing
- Alarms monitoring
- I/O monitoring
- GC monitoring



### Continuous ambient air monitoring in Ontario with airmoBTX 1000 analyser

For the measurement of continuous ambient air monitoring in Hamilton, Ontario (Canada), an airmoBTX 1000 analyser with its FID detector has been collocated inside a bus.

The aim of the project was to evaluate the use of the BTEX analyser for continuous ambient air monitoring at different urban and rural locations in Ontario

This mobile station received samplings downwind of four industrial emission sources.



A.N., Ontario Ministry of the Environment, Canada

### 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.



The **airTOXIC PID** has received from the CNR laboratory a European norm for the analysis of BTEX.