CHROMATOTEC Inc
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EXPERTS IN GAS ANALYSIS

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

Chromatotec Bulletin

Issue – July 2006

Medor celebrated its 30th anniversary on July 2005

Summary

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 – Booth 10.1K41
http://www.achema.de

AWMA – NEW ORLEANS
20 – 22 June 2006 – Booth 325
http://www.awma.org

GTI – HOUSTON
10 – 13 July 2006
http:// www.Gastechnology.org

POLLUTEC – LYON Eurexpo
27 Nov – 1st Dec
http:// www.pollutec.com

energyMEDOR INSIDE VIEW

Calibration
- Internal System Calibration DMS permeation tube
- Result validation & Autocalibration

Carrier gas : **Dry air or N_2**

Detection limit:
energyMedor:
H_2S and DMS : 0.1 ppm (0.14mg/m3)

energyMedor ppb
H_2S : 5 ppb (7,0 µg/m3)

High Stability
RSD<5% on concentration over 48h
RSD>0.6% on retention time over 48h

Vistachrom Software
- **Vizualisation and data storage**
- **Calculation module** Daily average calculation on selected components.
- **Result Transfer** with communication protocol

- **ppm or ppb level**
- **a continuous analyser dedicated to sulphur compounds**
- **ISO 6326/2 norm and DIN 1855/7**

Case Studies in USA/Europe/Japan in the analysis of H2S/Mercaptans/THT

More than 30 years experience in the analysis of H2S Mercaptans/ THT has allowed us to face different case studies worldwide.

- **USA/Europe: odorization** at PPM level.
  We have numerous instruments in metering stations and state owned gas companies in the United States for detection of mercaptans/H2S/a mix such as THT/TBM or TBM/DMS at ppm level
- **Japan: odourless at ppb level** in LPG. Butane / propane
- **CO2 quality control in Europe**: pure gas quality in CO2 for beverages
- **South Korea THT Medor** in an exp area. Collection data with software windows XP

The energyMEDOR is piloted by the powerful software program **VISTACHROM in a computer** and the transfer of the results/data can occur in either local or remote mode via different analog or networking protocols.

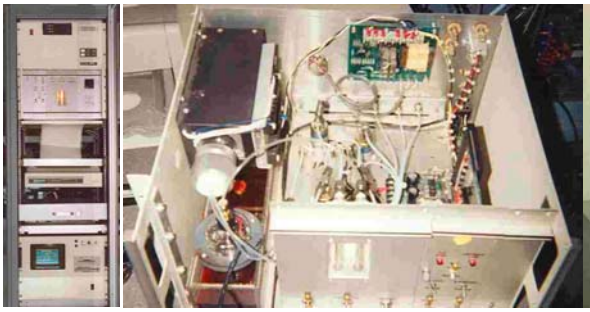
The software allows an **auto-calibration** of the analyser. It is the automatic adjustment of the base sensitivity factor of the analyzer according to one or multiple known and stable reference gas measurements. It can also make **specific calculations** like a sum of compounds or an average on results.

30 years of sulfur compounds analysis GC instrumentation

MEDOR 1975

Inside view – MEDOR 1975

MEDOR 8000



American MEDOR with DMS permeation tube - 1990

American MEDOR - 1997

American Cabinet 2000

Inside view – EnergyMEDOR - 2005

Let's give the word to users in the USA

I am pleased with the operation and the performance of the MEDOR.
I found that the technicians are very knowledgeable of the equipment and were able to give instruction over the phone to trouble shoot.
We have the MEDOR for about two years and its running very well.

Merrick L. Harris, PSGE NJ

The Medor has been operating unattended in our laboratory since February 2005. The only up keep it ever requires is the change of the Nitrogen carrier gas about once every 2.5 months (300 cf size cylinder) and add water to the reaction cell. Since installing this unit we have became aware of the rhythm of the odorant level during a 24 hour period. We have found the level changes as much as .05 lbs/mmcf especially during the night. We were never able to notice this with the Barton titrators.

William Jackson, Philadelphia Gas, PA

Our company has been a user of Medor gas analyzers to measure sulfurs, mercaptans, and organic sulfides used to odorize natural gas in gas transmission and distribution pipelines since the late 1980's. The Medor technology using a wet cell has proven to be a simple but effective technology which requires minimal routine maintenance.

As a user of this technology since early in its development, we have witnessed the technology progression from analyzers using HP integrator technology to operate the electro-mechanical analyzer externally through the technology change to internal electronic control of the analyzer with communication to an executive software program externally using current PC and Microsoft Windows systems.

The current windows based technology lends itself to be flexible with user control and SCADA systems requiring realtime data from these analyzers for operation of gas transmission and distribution lines. The analyzer has retained its basic simple technology over the course of electronic technology changes and still remains a simple but reliable sulfur / odorant analyzer system.

D. Young, Pacific Gas Electric and Electric company, CA

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