Le Bulletin

Edition – November 2008

SUMMARY

EXHIBITIONS 2009

ARAB LAB - UAE
Dubai – 10 – 13 January 2009
http://www.arablab.com/

ANALYSE INDUSTRIELLE 2009 - FRANCE
Paris La Défense -3 – 5 February 2009
http://www.analyse-expo.com/

Jumping de Bordeaux - FRANCE
Bordeaux - 6 – 8 February 2009
http://www.bordeaux-expo.com/jumping/

GAS 2009 – NETHERLANDS
Rotterdam – 11 - 13 February 2009
http://www.gas2009.org/

MCERTS 2009 - UK
Bretby - 29 – 30 April 2009
http://www.mcerts.uk.com/

ACHEMA 2009 – ALLEMAGNE
Frankfort - 11 - 15 May 2009
http://www.achema.de/

WREC – THAILANDE
Bangkok – 20 – 23 May 2009
http://www.thai-exhibition.com/entech/

AWMA 2009 – USA
Detroit – MI - 16 – 19 June 2009
http://www.awma.org/ACE2009/

Congrès International de métrologie – FRANCE
Paris –22 – 25 June 2009
http://www.metrologie2009.com/

CENTRAL CONTROL MODULE

The objective of the module is to do analysis at several measurement points:

- 1 Chromatotec analyzer ***airTOXIC*** on 2 channels
- 2 NOx analyzers on 12 channels

Chromatotec offers a multiplexer solution with **12 channels** along with the **software and data display system.**

The sequencing module controls 2 multiplexers with 6 channels;

It is a programmable controller with 24 VDC.

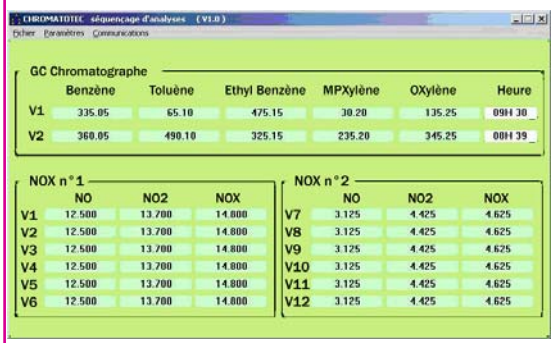
The sampling line is linked directly to the corresponding NOx analyzer.
This allows for the monitoring of the 12 channels independently.
The 2 NOx analyzers could be replaced by other types of analyzers: H2S, mercaptans, THC, NH3, Cl2…etc
A parallel connection for lines 1 and 7 is done in order to connect the ***airTOXIC*** analyzer.

The data acquisition module is also autonomous and saves all the data:

- The results of measurement of the 5 substances (Benzene, Toluene, Ethylbenzene, M and P xylenes, o-xylenes) from the 2 sampling lines from the ***airTOXIC***
- The results of measurement of the 3 substances (NO, NO_2, NOx) for the 12 sampling lines coming from the NOx analyzers.

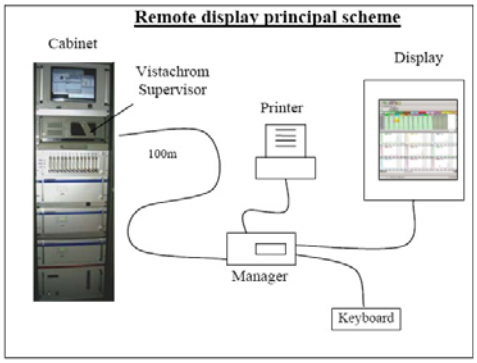
The data are stocked on a daily ASCII file, time dated and usable thanks to excell ensuring traceability of the measurements.
The data are available for further calculations and are also displayed in a specific window.
The software information is installed on a compact supervisor. The data exchange is done through RS485 with modbus RTU protocol.

Window with data display



REMOTE DISPLAY

Remote display of analytical results from on-line automated measurements.



Functions available :

- Display on screen in control room of up to 10 channels.
- Calculation of average :
  - automated : every eight hours
  - on demand : sliding average (e.g. since x hours or x days)
- print-out of the results on demand
- archiving of the data

Communication protocol MODBUS/JBUS (RS232/RS485)
Distance between computers: 100 meters

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

www.chromatotec.com

AUTOMATED DATA HANDLING

The gas chromatograph sends data information from various methods from 1 or several channels (multiplexer) to the computer.

Calculations are then done thanks to Group function or Math Module (Module Automation) program.

- ⇨ Group function creates a new name in the substance table such as TRS (Total reduced sulphur), THC (Total Hydrocarbons Content) or specific request (Total mercaptans) and calculates a new concentration result based on pre-assigned factors.
- ⇨ Math Module takes data in the Real Time Data Memory (RDTM) and applies calculation. The calculated data is then be used externally and returned to RDTM. Part of the RDTM is visualized in User Interface.

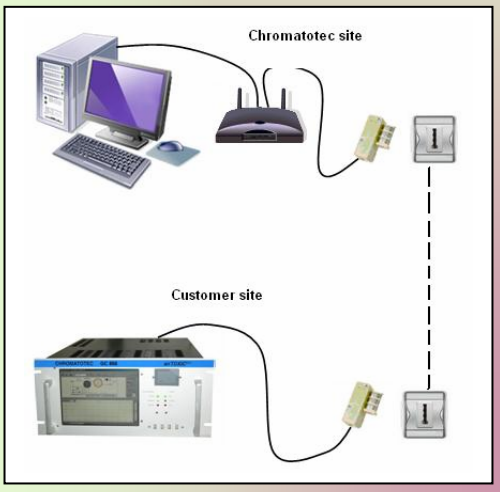
Example of applications are statistical calculation (average), alarms triggering (High or low), GC supervision, stability of calibration follow-up, data and event logging.

REMOTE CONTROL

This function allows for the remote control of an analyzer thanks to intermediate software such as PC anywhere or VNC.

The items necessary are the following:
- modem on each end.
- direct analogue phone line direct with type SDA phone number or internal access network.

Once connected, the Chromatotec operator can have access to the Vistachrom software of the client's analyzer.
There is also the possibility to do a diagnostic on a problem encountered, guide the customer with a specific manipulation…etc.



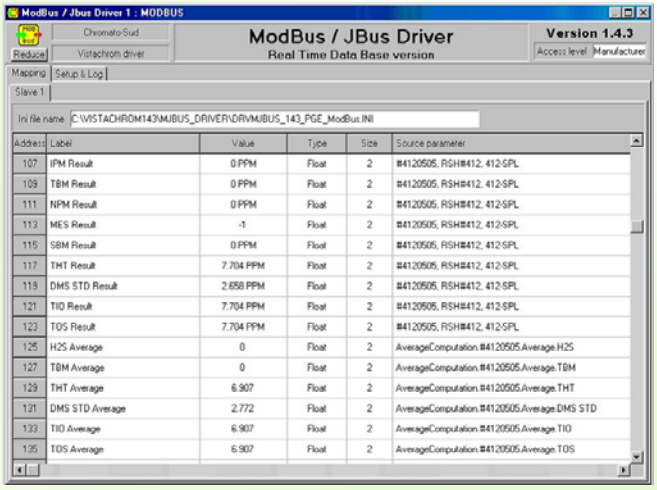
Soon available: wireless module according to GPRS (General Pocket Radio Service) norm.

MODBUS

Modbus RTU Protocol is used to establish master-pupil communication between intelligent devices.
It is "de facto" a standard, truly open and the most widely used network protocol in the industrial manufacturing environment.

Chromatotec offers Modbus/Jbus as option. The supervisor model XXX015 (***Pupil***) measures parameters (e.g. concentration, peak area, retention time, status, method, calibration) and communicates these results to a remote terminal unit ***(Master***) such as a data-logger. The information is sent via serial link such as RS-232 (Maximum 1.5 m), RS-485 (Maximum 1200 m) or by Ethernet.

The list of information available to be exchanged is called a mapping and can be viewed thanks to the Vistachrom software on the supervisor.



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