

# Expertise in Online GC

## Gas Chromatography solutions

**Chromatotec a French family firm operating in a hugely competitive sector is advancing with focus on ambient, industrial process and oil and gas markets with its sensitive on line automatic gas chromatographs analysers (autoGC). Last year, Chromatotec celebrated its 40th anniversary of one of its dedicated solutions for sulphurs quantification at trace levels. Every year, the company invests in new solutions to meet the needs and expectations of new markets and customers.**

Alliance of three companies (Chromato-Sud, airmotec and MEDOR) Chromatotec is now a group of 50 persons that deploys its solutions worldwide on well identified markets.

The company, located in St Antoine close to Bordeaux (France), has acquired a huge expertise over the years in gas analysis and is now contacted all over the world to meet specific challenges on gas monitoring, tracking every day lower and lower concentration (ppb-ppt) of VOCs, sulphurs and odours.

Initially a manufacturer of autoGC analysers, Chromatotec now provides turnkey solutions including all the analytical chain, from the sampling to the analyser.

### Validation of results at the heart of the concerns

Today the core business moves more and more towards data furniture, due to the high expertise acquired in the company in sampling, measurement and process control and thanks to the capabilities of remote access to check results anywhere, anytime.

In ambient air, Chromatotec's solutions are well recognised by the amount of certifications and by prestigious validation projects as the US EPA autoGC validation programme. The solutions enable the monitoring of classical molecules as BTEX to 123 VOCs at ppt concentration levels in air, making the solutions unique.

In industrial process applications, the company has developed innovative solutions to track and monitor in continuous VOCs and sulphurs from % to ppb-ppt concentration levels with unique solution. In ambient or in

channelled sources, it is possible to track methane and non methanic hydrocarbons in less than two minutes without air matrix effects. The measurement is a direct one without any need for gas conversion. As the analytical module is linear, it is possible to use the same equipment from ppb to % levels.

In the energy market, Chromatotec solutions enable users to reach the CO<sub>2</sub> matrix speciation for sulfurs molecules as COS, SO<sub>2</sub>, H<sub>2</sub>S, Methyl-Mercaptan, Ethyl-Mercaptan, CS<sub>2</sub> and Thiophene at ppb levels to check CO<sub>2</sub> purity in the process. In Energy again, autoGC analyzers are provided to quantify impurities as O<sub>2</sub>, N<sub>2</sub> and H<sub>2</sub> in pure Helium to warranty Ultra High Purity at grade 5.5 (99,9995%).

In other markets such as the food and beverages applications and in addition to sulfurs, O<sub>2</sub>, N<sub>2</sub> and H<sub>2</sub> the autoGC analysers are used to track specific molecules as Acetaldehyde, hydrocarbons (BTEX) and VOCs to comply with safety regulations in food and beverage applications.

Due to its capabilities to quantify molecules at concentration levels down to the human nose, the technology became the reference in WWTP on odour markets with automatic validated data and standalone units.

Capabilities to track more and more compounds at low sensitivities have allowed the expansion of solutions in process and industrial ambient air with the database up to hundreds of VOCs, and more recently also in water.

Chromatotec manufactures and develops analysers for on field application and has strong expertise on autoGC with main existing detectors and selected for specific applications (FID, PID, TCD, DID, Mass Spectrometry, Ionic Capillary Chromatography, FPD, Specific Wet Cell and more). In addition, Chromatotec provides the complete solution with specific sampling devices (for pipelines, stacks and water) to control the entire analytical chain.

The company is ISO 9001 certified and during mCERTs certification, SIRA realised a positive system quality audit of the company for the instrument fabrication process according to the EN 15267-2:2009 norm. As the validity of results is a crucial point for Chromatotec, all its analysers are submitted under each country's certification requirements. Solutions have received certifications from TUV and mCERTs, as well as Chinese certifications. The last update was the selection of eight companies from 88 identified



worldwide as gas experts for the evaluation of equipment. After one year of first lab evaluation, Chromatotec has been selected in the top three for field running evaluation. This is a new consecration for the company.

All these solutions are or can be integrated on mobile or fixed cabinet integrated on shelters or mobile vans and can be deployed in many environment types such as hazardous areas, channelled or diffuses sources. The equipment deployed worldwide has received ATEX certification for Europe, CSA US and CSA International for the Americas.

Production, quality control, research and development, and software development are homemade. As analytical way, all the chain is under control too. Software team allows for example to meet all the requirements for communication or data transfer to facilitate data access or integration in supervisor. The support team of technical engineers operates with passion over the world in assistance of partners and customers as applications are numerous and need permanent flexibility of design and mind.

Mr Franck Amiet, President of Chromatotec, said: "We look for excellence and put customer satisfaction at the centre of our strategy, this is the Chromatotec focus." ■

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