

Our Know-How

Chromatotec® specializes in the design and production of a full range of automatic gas chromatography (auto-GC) solutions designed and manufactured in France. Our proprietary technologies are developed internally, building on more than five decades of expertise from several analytical instrumentation companies.



Certifications and recognition around the world

- BTEX autoGC PID and FID have European Certifications (2015) : **EN 14662-3 / EN 15267-1 / EN 15267-2**.
- The MEDOR® is fully compliant to **ISO 6326/2, DIN 51855/7** and **ASTM D7493-22** in natural gas and ambient air.
- airMOzone and airTOXIC selected by **US EPA** for VOCs speciation like PAMS and BTEX monitoring.



Engineering standalone solutions with integration of automation systems

- **Online autoGC** with multi-detector configurations: PID / FID / TCD / DID / D-FPD / ED / MS.
- **Online autoHPLC / GPC-UV detectors** for aldehydes, ketones and polymer analysis.
- **Different integrations:** GC 866 racks (4U / 5U), wall-mounted, Exd or Exp - explosion proof rack, shelter, compact cabinet or portable.
- **VistaCHROM proprietary software** ensuring data acquisition, quantification, reporting, automatic validation.
- **Sampling systems:** Multiplexer and 4-Way Sampler for multi-stream gas injection.
- **Piezo valve** to electronic control carrier gas pressure
- **Gas generators:** H₂, N₂ and Zero air modules for autonomous operation.
- **Calibration systems:** automatic validation and permeation tube control.
- **Communication protocols:** MODBUS / FTP / Analog outputs for data transfer.
- **Safety modules:** alarms and automatic shutdown supervision.
- **Certifications:** ATEX / IECEx Zone 1 to C1D1 / C1D2 compliant designs.

Industrial GC 866 Exd



Explosion-proof automatic GC rack for ATEX Zone 1.

Multiplexer



Gas sampling system allowing analysis of several streams.



Industrial GC 866 Exp

Shelter



Turnkey integration of analytical system in a transportable shelter with only electricity required.

Our Values

For 50 years, Chromatotec® has continuously improved the quality and performance of its analyzers to better address client needs and enter new markets. Continuous investment in Research & Development and a team of experts focused on technology have led us to become a world reference in analytical instrumentation. We are committed to delivering tailor-made solutions for markets in constant evolution, aligned with sustainable development and environmental monitoring challenges.

As a French independent company, all our products are designed and manufactured in France. We minimize environmental impact by maintaining local production and working closely with regional suppliers. Driven by innovation, Chromatotec® combines scientific rigor with a long-term vision for environmental progress.



Contact Us

AMERICA
Sales and Service
for America
CHROMATOTEC USA

EUROPE
Headquarters, international sales
and R&D, manufacturing site
CHROMATOTEC FRANCE

ASIA
Sales and Service
for Asia
CHROMATOTEC CHINA



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Online Analytical Solutions Experts

Automatic Chromatography
Solutions for Online Monitoring



Speciation of Volatile Organic Compounds (VOCs) and BTEX

Automatic GC solutions for continuous gas analysis

autoGC-FID autoGC-PID



» THC, Benzene, BTEX
VOCs and S-VOCs from ppt to ppm

airmoVOC BTEX airTOXIC



» Benzene, Cyclohexane, Toluene, Ethylbenzene, Styrene, m, p and o-Xylenes (7peaks, 8 compounds) certified EN 14662-3-2015 QAL1.

autoGC-FID range autoGC-PID range airmoVOC range from C2 to C20 airmoOzone



» Automatic GC-FID (airmoVOC) or GC-PID (airTOXIC) for continuous VOC and BTEX monitoring. Up to 67 VOCs per auto-GC and up to 88 with airmoOzone. Multiple compounds list in standard like PAMS for ozone precursors, TO14, TO15 including BTEX. ppt to ppb

microVOC microF airmoF µairTOXIC



» microVOC : Portable GC-PID for VOCs monitoring. BTEX in standards. Other VOCs in option From ppt to ppm.
» microF and airmoF : specific for Formaldehyde - portable and rack version. ppt, ppb or ppm.



Features & Integration

- Compact 19" rack (4U / 5U), wall-mounted or portable versions.
- Fully automated sampling, calibration and validation.
- Multiplexer for 2 to 72 sampling lines with automatic control.
- Internal H₂, N₂ and zero air generators for autonomous operation.

Applications

- Urban and suburban air quality monitoring.
- Industrial fence line and odor source tracking.
- Indoor air and workplace hygiene analysis.
- Environmental compliance and atmospheric research.

Certifications & Performance

- EN 14662-3:2015 / EN 15267-1 / EN 15267-2 certified.
- Compliant with US EPA 502-2 and equivalent standards.
- Detection limit < 10 ppt for selected compounds.
- RSD < 0.3% (retention time) / < 2% (concentration).
- Two-week factory validation under real conditions.

Speciation of Sulfur compounds and Odorants

Certified analyzers for process control and industrial gas monitoring

MEDOR® autoGC-ED



» Ambient air and/or Industrial Hygiene, Waste Water Plant, Pure gas, emission, natural gas.
MEDOR® with loop ppb/ppm or % : H₂S, SO₂, Mercaptans, Sulfides, THT, etc. / COS
MEDOR® with trap ppt/ppb : H₂S, MM, EM, DMS, DES, etc.

autoGC-D-FPD chromaS-COS ppb/ppm airmoS ppt/ppb



» Ambient Air, Pure Gas, Industry and/or emission
» H₂S / R-SH / Sulfurs / COS / SO₂ / CS₂

Permanent gas and gas composition monitoring

Online instruments for high purity gas analysis

chromaDID chromaTCD chromaCO



» autoGC-DID : Discharge ionization Detector Permanent gases at ppb or ppm
» autoGC-TCD : Permanent gases and/or hydrocarbons from low ppm to %
» autoGC-FID with Methanizer for CH₄ / CO / CO₂ ppb or ppm



Features & Integration

- Modular design: rack, wall-mounted or Ex-proof cabinet.
- Automatic calibration and validation with internal standards.
- Built-in H₂, N₂ and zero air generators for autonomous operation.

Applications

- Process optimization and safety monitoring.
- Natural gas, biogas and LPG composition control.
- Petrochemical and refinery process validation.

Certifications & Performance

- ATEX / IECEx Zone 1 & 2 and C1D1 / C1D2.
- Automatic pressure and temperature control.
- Proven reliability in continuous industrial operation.



Features and integration

- Continuous online analysis of high-purity gases.
- Extremely high level of precision.
- Compliant with industrial requirements.
- From standard GC to customized solutions.

Applications

- Gas production / Hydrogen refuelling stations / Helium and speciality gases / Class E liquid CO₂ plants

Customized autoGC or auto HPLC Solutions

Research projects and tailor-made solutions, multi-phase complex projects for industry

Process GC Cabinet

» Integration of all type of Chromatotec® analyzers + gas generators
Industrial areas - IP66 enclosure
Specific application: Online monitoring of VOCs including BTEX in water, by purge and trap GC-FID or GCMS. In compliance with US EPA 502-2 method.



4-Way Sampler

» Automatic portable sampling system.
» Design to enhance flexibility and efficiency of gas sampling.



TD-autoGC-FID / MS

» Turnkey solution for complete characterization of up to 123 VOCs and sVOCs at ppt to ppm level



autoHPLC / GPC-UV

» Compact and portable high performance liquid chromatographs with UV detection
HPLC / GPC-UV analysis



Features & Integration

- Configurable systems for gas and liquid analyses.
- Integration of Chromatotec® generators and samplers.
- Remote or local operation through industrial computer.
- Optional automation for calibration and multi-stream control.

Applications

- Laboratory research and analytical method development.
- Water and liquid VOCs analysis (purge & trap).
- Pilot testing and on-site evaluation.
- Customized analytical setups for specific compounds.
- Multi-phase project strategy from feasibility study to analytical production.

Certifications & Performance

- Detection limits down to ppt range for specific analyses.
- Repeatability < 2% (concentration).
- Factory validation ensuring reproducibility and accuracy.