



EXPERT IN GAS ANALYSIS

ATMOSPHERE

Manufacturing

Sales

Maintenance



Ambient Air Monitoring (outdoor)

Water surveillance

Hygiene Air Monitoring (indoor)

Natural gas / LPG



Control Emission Monitoring

Pure gas / Gas manufacturers

Process Control

Introduction

The comprehensive range of Chromatotec® Gas Chromatographs (GC) provides automated continuous online analysis of over 100 organic compounds using measurement detection including PID, FID, dual FPD and electrochemical cells TCD / DID / plasma / ECD (Ni63) / NPD.

Complete systems incorporating GC, internal calibration, stream selectors, air conditioning, H₂/N₂/air generators, industrial computer and data acquisition software can be provided offering turnkey solutions to online monitoring needs.

Monitoring Applications:



- Ambient Air Monitoring indoor & outdoor (ppm or ppb)
- Emissions & Continuous Emissions Monitoring (CEM's)
- Pure Gas Manufacture / Testing
- Natural Gases / LPG Monitoring
- Odour Monitoring
- Process Monitoring
- Water Surveillance

BTEX / 1.3 Butadiene / VOC's

- **Cabinet rack**

airmOzone PAMS / TO14 / TO15 / POPS...

For detection of VOC's C₂-C₁₂ or Ozone precursors. Cabinet systems designed for air monitoring networks with analysis and separation for more than 100 compounds. **Detection Limit < 0.05 ppb.**

Chinese certification archived in 2010.

Certified mCerts Name European:

- EN 14662-3 (2013)
- EN 15267-1
- EN 15267-2

airmOzone certificate number: SIRA MC 130231/00

With the airmozone system, the 31 VOC European list, the US PAMs and TO-14 lists are analyzed as standard.

- **Single instrument**

airmoBTX (FID):

Flame Ionisation Detector (FID) with integral computer.

TÜV approved in 1996. CNR 2007 Certification.

Excellent Separation. Very stable over time.

airTOXIC BTX PID with autocalibration:

A GC/PID for automatic monitoring of BTEX in air, water or soils without requirement for H₂ gas. High sensitivity.

Photo Ionisation Detector (PID) and integral computer.

CNR 2006 certification

Certified mCerts Name European:

- EN 14662-3 (2013)
- EN 15267-1
- EN 15267-2

airTOXIC certificate number: SIRA MC 130230/00

- Measures up to 8 compounds.
- Minimum detection limit: 10ppt.
- Robust, metal capillary column.
- Excellent separation.
- Option: 1.3 butadiene
- BTEX / Cyclohexane / Styrene / Tetrachloroethylene
- **EPA tested and approved (US Environmental Protection Agency).**



Odor's & VOC's Cabinet



airTOXIC system



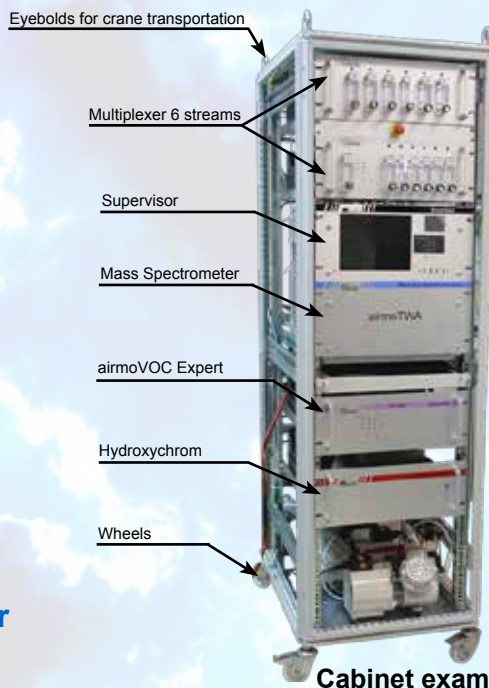
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airmoTWA:

It is a combination of two robust instruments, **airmo-VOC expert** and **QMS**, which allows quantification and identification of chemicals from % to low ppt levels.

The complementarity of the instruments allows the monitoring of low concentrations in 30 minutes and/ or the very fast detection of concentration changes at ppm levels. **airmoTWA** is delivered with gas generators, calibration system (in compliance with **ISO 17025** for Benzene) and multiplexer.



Cabinet example

Sulfurous Compounds & Mercaptans / TRS in air

TRS Medor® (sulfur compounds from fermentation):

The TRS Medor® is a gas chromatograph dedicated to analysis of Sulfur compounds (H₂S, Mercaptans, Sulphides and Disulphides) present in different matrices.

- Electrochemical Detection Principle
- Detection limit: 1 ppb.
- **ISO 6326/2. DIN 51855/7.**
- Windows based software display for computer.
- Mercaptans / sulphides: option 0.01 / 5 ppb
- SO₂ as option



EnergyMEDOR® system 5U

EnergyMEDOR® / THT MEDOR® / H2S MEDOR®:

Dedicated to measurement of odourant Sulfur species in natural gas.

- Electrochemical Detection Principle
- **ASTM D7493-08 Method from April 2009.**

Medor® ATEX:

- Wall mounted
- Z purge
- **Pressure & T° in purged box readout and display**
- Local and remote monitoring possible
- Designed for hazardous areas
- CSA certified class 1, div 2 group C&D
- ATEX Ex II 3G Ex pz IIC T4



Medor® Exp



Chroma S (dual flame photometric detector):

Specific for detection of Sulfurous compounds in air, emissions and pure gases. H₂S, Mercaptans, Sulphides, TBM, **COS**, SO₂, **CS₂**.

- Detection limit: 7 ppb (loop).
- LDL < ppb with trap (Mercaptans)
- Specific application (H₂, CO₂, CH₄)



chromaS system 4U

Other Gases

Total Sulfur:

Measurement: 1 ppb in air ambient

Purge and trap with method 502-2

Special applications upon request like:

airmo H-CHO : measurement ppm or ppb of Formadehyde and Acetaldehyde in air or pure gas.



Waste Water Treatment cabinet

Chromatotec® Product Range Overview:

Model	Compounds	Application	Conc	Loop/Trap	Detector	Carrier Gas
airmoVOC C ₂ -C ₆	VOCs C ₂ -C ₆	Ambient / general	ppb	Trap with Peltier cooler	FID	H ₂
airmoVOC C ₆ -C ₁₂	VOCs C ₆ -C ₁₂ , BTEX	Ambient / general	ppb	Trap	FID	H ₂
airmoBTX	BTEX	Contaminated land good separation	ppb	trap	FID	H ₂
airTOXIC	BTEX 1.3-Butadiene	Ambient / good sensitivity	ppt	Trap	PID	N ₂
chromaFID	VOCs, BTEX, light compounds	General	ppm	Loop	FID	H ₂
chromaTHC	VOCs, CH ₄ , NMTHC	General	ppm	Loop	FID	N ₂ /H ₂ /air
chromaTCD	H ₂ Cs, CO, CO ₂ , N ₂ , He, H ₂ , Ne	Pure gases	ppm & %	Loop	TCD	He/Ar
chroma S	Total Sulphurs, COS, SO ₂ , CS ₂ , H ₂ S	Paper, waste water, Nat Gas CO ₂	ppb, ppm	Loop	FPD	H ₂ /air
trsMEDOR®	TRS, H ₂ S, DMS, Mercaptans, SO ₂	Waste water / Ambient - Odour emissions	ppb	Loop	Electrochemical detector	air
Energy MEDOR®	Sulphurs, H ₂ S, mercaptans, THT	Monitoring + control of odourisation	ppb & ppm	Loop	Electrochemical detector	air

