

# KEY PRODUCTS - GC 866 RANGE

A full range of automated continuous and online gas chromatography analyzers.

- 19" rack (4U or 5U)
- Data logger software
- Windows based data analysis program Vistachrom / Vistadetector
- Compounds speciation

**ANALYSIS OF SULFUR COMPOUNDS**

## Ambient air and/or Industrial hygiene (Waste Water Plant) TRsMEDOR® (H<sub>2</sub>S / R-SH / Sulfurs / SO<sub>2</sub>) + airmo S



TRsMEDOR - option ppt



airmo S

To control the efficiency of the deodorizing process in a water treatment plant, the TRsMEDOR® allows quantitative and qualitative analysis of the various compounds:  
H<sub>2</sub>S, Methyl-mercaptan, DMS, DMDS, SO<sub>2</sub>.

Calculation of TRS (Total Reduced Sulfur) with Vistachrom.  
LDL (H<sub>2</sub>S) : 1 ppb / LDL (DMS) : 0.5 ppb

For odor monitoring and control, airmo S is a sulfur specific analyzer by GC/FPD, from ppb to ppm.



Sulfur compounds analyzer  
ISO 6326

## Oil & Gas - energyMEDOR® (H<sub>2</sub>S / R-SH / THT / Sulfurs) + medor ex®

Control of natural gas odorization during transportation is critical for civil security. energyMEDOR® with internal calibration.  
The analyzer comes in an Exp cabinet enclosure to meet hazardous conditions requirements.  
Analysis of H<sub>2</sub>S, mercaptans and THT during a standard cycle with total sulphur calculation.  
LDL (H<sub>2</sub>S) : 0.1 ppm, 5 ppb as option



ATEX ZONE 1 & 2  
TYPE CERTIFICATION



CSA INTERNATIONAL  
CLASS 1 DIV 2



ACCORDING TO D7493-08



CSA US TYPE CERTIFICATION  
CLASS 1 DIVISION 2



Medor® Exp  
CSA approved

## Industry and/or emission chroma S (H<sub>2</sub>S / R-SH / Sulfurs / COS / SO<sub>2</sub> / CS<sub>2</sub>)

Due to the release of toxic compounds, for example during the cellulose cooking process in a paper mill, companies have to install systems to « clean » gaseous emissions.  
Efficiency of cleaning is monitored by installing 2 Chroma S, one before and one after to analyze COS and H<sub>2</sub>S.

LDL (H<sub>2</sub>S) : 7 ppb

LDL (CS<sub>2</sub> / DMDS) : 4 ppb

Internal or external computer; data collection with Windows embedded.  
Concentrations, TRS, TOS and status information (calibrations, streams, default analyzer) are transferred to a central control room.



Chroma S - 5U

## Total Hydrocarbons Analysis - chroma THC

Monitoring & analysis of Methane & Non-Methane, Total, HydroCarbons (NMTHC) by flame ionisation detection.

## Ambient air monitoring - Urban areas - BTEX

Ambient air quality measurements can be performed in urban or industrial areas. The compounds analyzed for these standard applications are: benzene, toluene, ethylbenzene, m, p and o-xylenes (5 peaks, 6 compounds).

OPTION 1.3 BUTADIENE + STYRENE AND CYCLOHEXANE

- **airmoVOC BTEX**, with flame ionization detector (FID): TÜV 1996 and CNR 2007 certifications  
LDL (benzene) < 50 ppt
- **airTOXIC**, with photo-ionization detector (PID): CNR 2006 certification and National US EPA tested and installed in 2008. Certification PA 2010-C123 by China National testing center.  
Certificate mCerts number: SIRA MC 130230/00 (2013).  
LDL (benzene) < 10 ppt



airTOXIC auto GC 866



Auto GC/MS 866



airmOzone CABINET

## Ozone precursors - airmOzone cabinet

The airmOzone cabinet has been designed to analyze Volatile Organic Compounds from C2 to C12, also called Ozone precursors.

Complete unit to analyze up to 88 compounds. (PAMS 56 - TO 14 / TO 15)

Air quality monitoring networks guided by national regulations: European directive 2002/3/CE advises the analysis of 31 VOC are US EPA advises the monitoring of 56 VOCs (for Japan also alpha and beta-pinene (terpens)).

OPTION SULFUR ANALYSIS

LDL (1,3 butadiene): 15 ppt / LDL (tri-methyl benzene): 10 ppt

## Ambient air monitoring - Industrial areas - airmoSCAN<sub>xpert</sub>

Turnkey solution for continuous analysis of VOC - Trap GC-MS/FID System.

PAMS 56 - TO 14 / TO 15. More than 123 compounds.

## Polycyclic Aromatic Hydrocarbons Compounds - airmoC<sub>10</sub>C<sub>20</sub><sup>+</sup>

PAH monitoring in Industrial areas.

Up to 18 PAH analyzed.

Compliant with US EPA Method 610/8100.

	Specification for loop instrument	Detection limit
chromaTCD He	TCD detector. For measurement of Ne / O <sub>2</sub> / H <sub>2</sub> / N <sub>2</sub> / Ar	O <sub>2</sub> / N <sub>2</sub> ≤ 2 ppm
chromArgon	TCD detector. For measurement of Ne / O <sub>2</sub> / H <sub>2</sub> / N <sub>2</sub> / He	O <sub>2</sub> / He / H <sub>2</sub> < 2 ppm
chromaDID He	DID detector. For measurement of Ne / O <sub>2</sub> / H <sub>2</sub> / N <sub>2</sub> / Ar	Ne / H <sub>2</sub> ≤ 50 ppb
chromaCO	FID detector and methanizer for measurement of CH <sub>4</sub> / CO / CO <sub>2</sub>	CH <sub>4</sub> / CO / CO <sub>2</sub> < 50 ppb in pure gas
airmoHCHO	FID detector and methanizer. For measurement of formaldehyde and acetaldehyde in pure gas (N <sub>2</sub> ) or in ambient air. <b>Trap injection</b>	HCHO: 0.5 ppb
chromaFID	FID detector. Dedicated to VOCs and/or halogenated solvents such as: 1,2 dichloroethane, vinyl chloride. For the measurement of toxic compounds for emission, industrial hygiene or impurities in pure gas.	Benzene: 50 ppb
chromaPID	Photo-ionization detector: nitrogen or air is used as carrier gas. Main advantage: no flame therefore no hydrogen is needed.	Benzene: 20 ppb
chromaTHC	Equipped with an isothermal column for the measurement of VOCs in air (indoor and outdoor), industrial hygiene and in pure gas such as N <sub>2</sub> /CO <sub>2</sub> /O <sub>2</sub> .	CH <sub>4</sub> : 100 ppb NMTHC: 30 ppb
chroma S	FPD detector. For measurement of H <sub>2</sub> S / SO <sub>2</sub> / CS <sub>2</sub> / Mercaptans / COS / impurities in pure gas (CO <sub>2</sub> / CH <sub>4</sub> ...)	4 ppb for 2 sulfur atom 7 ppb for 1 sulfur atom
TRsMEDOR®	Sulfur compounds specific detector: nitrogen or air is used as carrier gas. For measurement of Total Reduced Sulfur / SO <sub>2</sub> / DMS	DMS: 0.5 ppb

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