

# KEY PRODUCTS - GC 866 RANGE

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

19" rack (4U or 5U)

Data logger software

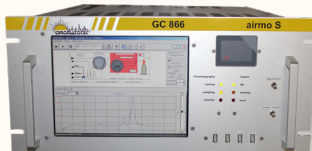
Windows based data analysis program Vistachrom / Vistadetector

Compounds speciation

## 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 ppt 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 ET 2  
TYPE CERTIFICATION



CSA US TYPE CERTIFICATION  
CLASS 1 DIVISION 2



COMPLIANT WITH  
D7493-08 METHOD



IECEx ZONE 1 ET 2  
GROUP IIB + H2



CSA INTERNATIONAL  
CLASS 1 DIV 2



Medor® Exp

## 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, analyzer default) are transferred to a central control room.



Chroma S

## Total Hydrocarbons Analysis - chroma THC

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

## Formaldehyde and Acetaldehyde Analysis - airmoHCHO

Detector and methanizer. Dedicated to the measurement of Formaldehyde and Acetaldehyde in pure gas (N<sub>2</sub>) or in ambient air.  
Trap injection / HCHO: 0.5 ppb

## 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**



- EN 14662-3  
- EN 15267-1  
- EN 15267-2



2010-0123



airTOXIC auto GC 866



Auto GC/MS 866



airmoOzone CABINET

## Ozone precursors - airmOzone cabinet

The airmOzone cabinet has been designed to analyze Volatile Organic Compounds from C<sub>2</sub> to C<sub>12</sub>, also called Ozone precursors.

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

Air quality monitoring networks are guided by national regulations: European directive 2002/3/CE advises the analysis of 31 VOC and 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 VOCs - 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.

## Biogas solutions - ChromaTCD

With embedded H<sub>2</sub> generator, ChromaTCD measures biogas composition and impurities without a carrier gas cylinder.

CH<sub>4</sub>, H<sub>2</sub>S, CO<sub>2</sub>, O<sub>2</sub> and H<sub>2</sub>O optional

	Specification for loop instrument	Detection limit
<b>chromaTCD He</b>	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
<b>chromArgon</b>	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
<b>chromaDID He</b>	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
<b>chromaCO</b>	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
<b>chromaFID</b>	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
<b>chromaPID</b>	Photo-ionization detector: nitrogen or air is used as carrier gas. Main advantage: no flame therefore no hydrogen is needed.	Benzene: 20 ppb