

KEY PRODUCTS - GC 866 range

A full range of automated continuous and online gas chromatography analysers. The various models have the following features:

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

Natural gas - EnergyMEDOR® (H2S / R-SH / THT / Sulfurs)



Control of natural gas odorization during transportation is critical for civil security. EnergyMEDOR[®] with internal calibration. Analysis of H2S, mercaptans and THT during a standard cycle with total sulphur calculation. LDL (H2S): 0.1 ppm, 5 ppb as option

Technical Data sheet M41



Ambient air and/or Industrial hygiene (Waste Water Plant) TRSMEDOR® (H2S / R-SH / Sulfurs / SO2)

To control the efficiency of the deodorizing process in a water treatment plant, the TRSMEDOR® allows quantitative and qualitative analysis of the various compounds: H2S, Methyl-mercaptans, DMS, DMDS, SO2. Calculation of TRS (Total Reduced Sulfur) with Vistachrom. Option ppt / LDL (DMS): 0.5 ppb

lyze COS and H2S.

LDL (H2S) : 1 ppb

Technical Data sheet C51

Technical Data sheet M52 (ppb) / Technical Data sheet M54 (ppm)

Industry and/or emission ChromaS (H2S / R-SH / Sulfurs / COS / SO2 / CS2)



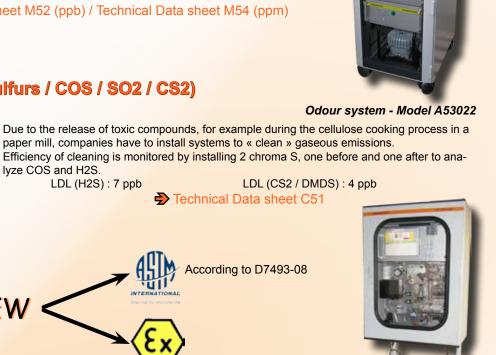
Dual flame photometric detector ChromaS - Model C51000



LDL (H2S): 7 ppb

Internal or external computer; data collection with Windows XP embedded. Concentrations, TRS, TOS and status information (calibrations, streams, default analyzer) are transferred to a central control room. The analyzer comes in an Exp cabinet enclosure to meet hazardous conditions requirements.

Technical Data sheet M55





MEDOR[®] Exp ATEX Ex II 3G Ex pz IIC T4

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GC PROCESS Cabinet

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Ozone precursors - airmOzone cabinet

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

- PAMS: A52022-056
 - Purge and Trap: A52022-502 / method 502-2 or 524
 - TO14/PAMS: A52022-088

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

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

Technical Data sheet A11 and A21

BTEX - PID or FID

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 butadlene + styrene and cyclohexane

• airmoBTX, with flame ionization detector (FID): TÜV 1996 and CNR 2007 certifications LDL (benzene) < 50 ppt



Technical Data sheet A31-A34

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 VOC TO14-TO15

Chlorinated compounds + BTEX

Case study airmOzone TO14 (up to 40 or 60 compounds)



Gas analyser: airTOXIC GC866 Model A73022

MCERTS

airmOzone cabinet Model A52022

> Certified mCerts Name European - EN 14662-3 - EN 15267-1 - EN 15267-2

airmoTWA cabinet

	Specification for loop instrument	Detection limit	Data Sheet
chromaTCD He	TCD detector. For measurement of Ne / O2 / H2 / N2 / Ar	O2 / N2 ≼ 2 ppm	TSP C41
chromArgon	TCD detector. For measurement of Ne / O2 / H2 / N2 / He	O2 / He / H2 < 2 ppm	TSP C41
chromaDID He	DID detector. For measurement of Ne / O2 / H2 / N2 / Ar	Ne / H2 ≼ 50 ppb	TSP C81
chromaCO	FID detector and methanizer for measurement of CH4 / CO / CO2	CH4 / CO / CO2 < 50 ppb in pure gas	TSP C11
airmoHCHO	FID detector and methanizer. For measurement of formaldehyde and acetaldehyde in pure gas (N2) or in ambient air Trap injection .	HCHO: 0.5 ppb	TSP A13
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	TSP C31
chromaPID	Photo-ionization detector: nitrogen or air is used as carrier gas. Main advantage: no flame therefore no hydrogen is needed.	Benzene: 20 ppb	TSP C91
chromaTHC	Equipped with an isothermal column for the measurement of VOCs in air (indoor and outdoor), industrial hygiene and in pure gas such as N2/CO2/O2.	CH4: 100 ppb NMTHC: 30 ppb	TSP C21 - C22
chromaS	FPD detector. For measurement of H2S / SO2 / CS2 / Mercaptans / COS / impurities in pure gas (CO2 / CH4)	4 ppb for 2 sulfurs 7 ppb for 1 sulfur	TSP C51
trs MEDOR ®	Sulfur specific detector: nitrogen or air is used as carrier gas. For measurement of Total Reduced Sulfur / SO2 / DMS	DMS: 0.5 ppb	TSP M52



JRITHES IN PURE GAS