

# **EXPERTS IN GAS ANALYSIS**

ANALYSEUR DE GAZ GC 866

C2H2

CH<sub>4</sub>

Vinyl Chloride

Methyl Ethyl Ketone

Ethyllactate

Solvents

1 3 Butadiene

CH2Cl2

# chromaFID

A GC/FID instrument for automatic, continuous analysis of Volatile Organic Compounds (20ppb to ppm)



Model: C31022

# **Applications of the chromaFID:**

# <u>Industrial Health & Safety (interior emissions):</u>

Pharmaceutical plant Heavy Chemicals Micro-electronics manufacture

# **Emission monitoring:**

Incinerators
Solvents & paints
Petrochemical
VOC treatment (Filtration...)

# Other applications:

Environnement Industrial Processes...

Chromatotec is specialised in VOC, Sulfur and permanent gases analysis at trace and ultra trace levels (ppm, ppb, ppt).

Please visit our website for more details.

# chromaFID



A GC/FID instrument for automatic, continuous analysis of Volatile Organic Compounds (20 ppb to ppm)

## **Description:**

The ChromaFID is a gas chromatograph dedicated to the analysis of VOC's from 20 ppb to ppm levels. The analyser enables the continuous monitoring of the concentration of VOC compounds from  $\rm C_1$  to  $\rm C_{12}$ .

# **Principal:**

- · Automatic, continuous sampling through a sample loop
- Injection of the loop sample into a temperature regulated metallic capilliary column. The temperature & pressure of the column is regulated by the operating software.
- The detection of the VOC compounds eluted from the column is performed by an FID detection system.

## **Charactéristics:**

The chromFID is equipped with an integrated PC comprising of the Vistachrom programme. Before delivery, the instrument is tested and validated for a minimum of 1 week by our QC department.

. The instrument is robust, compact and very low maintenance and offers excellent result quality: repeatability, linearity, stability and sensibility (ppb).

#### **VISTACHROM** ® software:

Chromatotec developed software system allows:

- · Remote monitoring
- Full traceability through archiving of results and QC
- · Set up and control of threshold alarms
- Export of data MODBUS / MGS1 / 4-20mA /0-10V

## **Options:**

- · Internal calibration
- · Automatic data transfer through:
- 4-20mA / Modbus / MGS1
- · Hydrogen Generator
- · Zero Air Generator
- Multiple stream analysis with Multiplexer
- · Dilution system
- · Heated lines
- Analysis of particular VOC's such as: Epichlorohydrine / MIBK / IPA...

# **Technical Specifications:**

#### VOC analysis (20 ppb to ppm):

Depending on the application chosen

- BTEX,
- Chlorinated solvents : dichloromethane, 1,2-dichloroethane,
- · Vinyl chlorides
- Aldehydes
- C<sub>1</sub> à C<sub>6</sub>
- C<sub>6</sub>à C<sub>12</sub>

#### Limite de détection:

• Benzene: 20 ppb or 64 μg/m³

#### **Detection range:**

· 20 ppb to ppm levels

#### Relative Standard Déviation:

- < 0,3% over 48h (retention time)
- < 3% over 48 h (concentration)</li>

#### Results:

- · Full result storage (data and graphics)
- Output 4-20 mA (option)
- Communication protocol MODBUS / JBUS or MGS1 (option)

#### **Cvcle time:**

· 3 up to 30 minutes depending on application

#### Gas supply:

- H<sub>2</sub> (FID and carrier gas): 30 ml/min (supply 2 bars; 1/16")
- Air (FID): 180 ml/min (supply 3 bars; 1/8")
- Sample supply (sample pump) 1/8"

### Volume sampled:

• 50 to 500 µl (programmable)

## Power supply:

- Main: 230V / 115V or 50 Hz / 60Hz
- · Battery: 24V (option)

# **Electric consumption:**

• Average: 150 VA; Pic: 360 VA

### Dimensions et weight:

- Rack: 19" (5U)
- · Height: 222 mm
- Width: 482 mm
- Depth: 600 mm
- · Net weight of analyser: 22 kg

## To order:

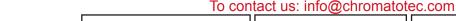
Model:

- chromaFID (without special application)

C31022

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