

C₂H₂**CH₄****VinylChloride****Methyl Ethyl Ketone****Ethyl lactate****Solvents****1,3 Butadiene****CH₂Cl₂**

chromaFID

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



Model : C31022

Applications of the chromaFID:

Industrial Health & Safety (interior emissions):

- 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.

Updated: March 2017

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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 C1 to C12.

Principle:

- Automatic, continuous sampling through a sample loop
- Injection of the loop sample into a temperature regulated metallic capillary 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.

Characteristics:

The chromaFID is equipped with an integrated PC including of the Vista-chrom program. Before delivery, the instrument is tested and validated for a minimum of 1 week by our QC department.

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

VISTACHROM® software:

The software developed by Chromatotec® 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...

Product technical specifications:

VOC analysis (20 ppb to ppm):

Depending on the chosen application

- BTEX
- Chlorinated solvents : dichloromethane, 1,2-dichloroethane
- Vinyl chlorides
- Aldehydes
- C1 to C6
- C6 to C12

Detection limit:

- 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)

Results:

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

Cycle time:

- 3 up to 30 minutes depending on the application

Gas supply:

- H2 (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 ; Peak : 360 VA

Dimensions and weight:

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

To order:

chromaFID (without special application)

Model:

C31022

Chromatotec® is continuously improving its products, therefore these specifications are subject to change without notice

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