



Vinyl Chloride

Methyl Ethyl Ketone

Ethyl lactate

Solvents

1,3 Butadiene



chromaFID

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

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 C₁ to C₁₂.

Principal:

- 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 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
- C₁ à C₆
- C₆ à C₁₂

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)

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 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 ; 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:

- chromaFID (without special application)

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