

Amines

Aldehydes

Benzene

Vinyl Chloride

Ketones

Ethyl lactate

Solvents

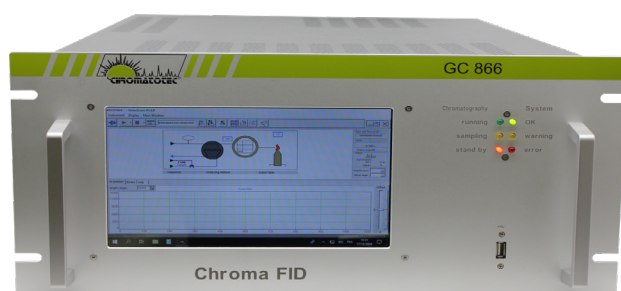
1,3 Butadiene

CH₂Cl₂

chromaFID*

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

*chromaFID-300 version: C10 to C40



Model : C31022 & C31022-300
Rack version



Model : C31022 & C31022-300
Wall mounted version

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...

SCAN or CLICK ME



*List of compounds to be validated depending on the configuration

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: January 2025

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 (C10 to C40 for FID-300 version).

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).

Key points for Chroma FID-300:

- Heated sampling line up to heated valve in the GC
- SVOC can be analyzed
- Linear alkanes from C6 to C40
- No condensation part from C6 to C40

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 (C6 to C40 for chromaFID-300)
- MEG / TEG
- Benzene (3min) (except chromaFID-300)
- Amines

Detection limit:

- Benzene : 20 ppb or 64 µg/m³

Detection range:

- 20 ppb to ppm levels
- % with internal loop valve (XXXVALVEHC)

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"
- Pneumatic valve 90 mL/commutation

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

[CLICK HERE FOR ADDITIONAL DIMENSIONS DETAILS](#)

To order:

chromaFID (without special application)
chromaFID-300
chromaFID-amines

Model:

C31022
C31022-300
C31022-amines

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

To contact us: sales@chromatotec.com

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