

# CHROMA<sup>FID</sup>

## Volatile organic compound analyzer

An industrial gas analyzer for volatile organic compounds using flame ionization detection.

A 19" inch rack mountable chassis, 4U high. It has ability to be used as a fully integrated system for automatic sample analysis as well as it is transportable for use on various sites. The CHROMA<sup>FID</sup> is able to meet all of the requirements for VOC analysis. Our application flexibility allows the CHROMA<sup>FID</sup> start up to meet the customer's specifications.

### Industrial Hygiene

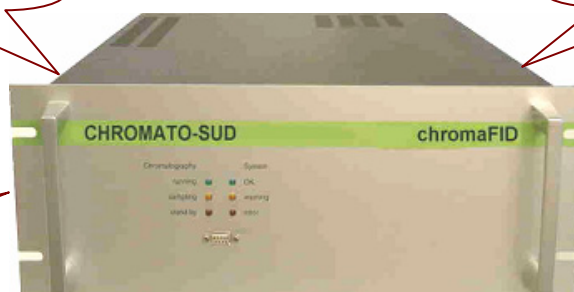
0,1 to 10 ppm

### Process Follow Up

0,1 to 10 ppm

### Environment

### Emissions



### Principle :

The **CHROMA<sup>FID</sup>** is an **isothermal industrial gas chromatograph** dedicated to the analysis of volatile organic compounds in air (indoor, outdoor), industrial hygiene, pure gas like N<sub>2</sub>/CO<sub>2</sub>/O<sub>2</sub>.

As a fully automatic instrument, the **CHROMA<sup>FID</sup>** allows **un-attended operation the commissioning 24/24**.

The injection is made via a heated valve. The separation is achieved using a macro bore (0,53 mm) or a capillary column (0,2 mm), according to the application. An electrical valve regulates carrier gas (hydrogen). The retention time drift is less than 0,3 %. The instrument has a flame ionization detector (FID) heated to 150°C. The detection limit of the **CHROMA<sup>FID</sup>** is > 20 ppb.

The **CHROMA<sup>FID</sup>** is equipped with an internal microprocessor which runs all of the analytical events (temperature, pressure, injection, detection and concentration calculations).

The VistaCHROM software enables the user to visualize and store data on a PC. Furthermore it provides comfortable utilities to recalculate, calibrate and export data and to set-up measurement.

The airmoTREND software allows the calculation of retention time, area, mass or concentration profiles.

### Applications examples:

- Paint thinner analysis
- Toxic compounds monitoring: ex BENZENE.
- Monitoring of solvent emissions
- Quality control of manufacturing process and VOC analysis

### Options :

- On-line results are transmitted via a MODBUS / JBUS or MGS1 communication protocol.
- Analog output 4-20 mA or 0-10 V.
- **Automatic validation**
- **Oven gradient temperature**
- 24 V power supply.
- Pressurised housing like **Exp** for installation in the area 1.
- Multiple Stream selector (2 to 6)



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

Feel free to visit our web site for more details: <http://www.chromatotec.com>

C<sub>2</sub>H<sub>2</sub>  
CH<sub>4</sub>  
Vinyle Chloride  
Ethyl lactate  
Methyl Ethyl Ketone  
Solvents  
1,3 butadiene  
CH<sub>2</sub>Cl<sub>2</sub>