ONLINE ANALYTICAL SOLUTIONS EXPERTS

GAS ANALYZER GC 866

Chroma CO

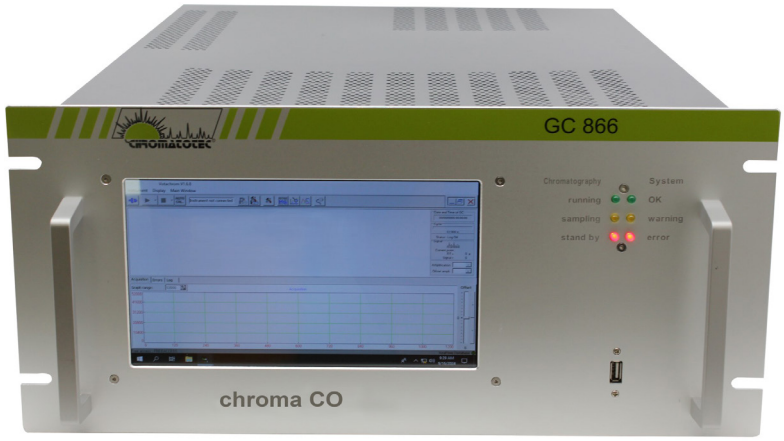
A gas analyser using flame detection with a catalytic methaniser module to analyse CO / CH4 and CO2 for air or gas monitoring

CH4

CO

CO2

HCHO*



Integrated computer version (5U high) : C11022

Industrial hygiene / Process / Environment / Emissions

ambient air:

CO / CH4 and CO2 in ambiant air
Toxic compounds monitoring: **HCHO** and **Acetaldehyde** in option

In air (CO = around 300 ppb) (CO2 = 380 ppm and CH4 =1800 ppb)

Process / Pure gas:

Methane / CO / CO2 in pure gas
Monitoring of CO in pure N2O
Quality control of manufacturing process

SCAN or CLICK ME

* *in option*

Chromatotec® is specialized in VOC, Sulfur and permanent gases analysis at trace and ultra trace levels (ppm, ppb, ppt). Please visit our website for more details.

Updated: October 2024

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Principle:

A 19» inch rack mountable chassis, 5U high. It has the ability to be used as a fully integrated system for automatic sample analysis as well as a transportable unit for use on various sites. Our application flexibility allows the chromaCO start up to meet the customer's specifications.

The CHROMA CO is an **isothermal industrial gas chromatograph** (isothermal column) dedicated to the analysis of CO/CO2/CH4/ in air or industrial hygiene or pure gas like N2. As a fully automatic instrument, it allows **unattended operation for commissioning 24/24**. The injection is made via a heated valve. CO CH4 CO2 are separated by the column and CO and CO2 are hydrogenated in CH4 before the FID.

- A valve regulates pure carrier gas.
- The instrument has a flame ionization detector FID.
- The detection limit is in ppb in standard.
- It is equipped with an internal microprocessor which runs all the analytical events (temperature, pressure injection, and detection and concentration calculations).

The Vistachrom software enables the user to visualize and store data on a computer. Furthermore it provides comfortable utilities to recalculate, calibrate and export data and to set-up measurement. The airmo TREND software allows the calculation of retention time, area, mass or concentration profiles.
CALCULATION AVERAGE can be made for better precision

Options:

On-line results are transmitted via :

- NMTHC (+ THC by calcul = NMTHC + CH4)
- HCHO application
- A Modbus / Jbus or BH protocol.
- Analog output 4-20 mA or 0-10 V.
- **Automatic validation**
- **Generator of purified air (air with THC in ppt).**
- **Oven gradient temperature**
- 24 V power supply.
- Multiple stream selector (2 to 6)
- Pressurised housing like Exp for installation in area 1..
- Available in version integrated computer – 5U (including ref. XXX022 Electronic and LCD display).
- **Gas generator H2/air/N2**

Product technical specifications:

CO/CH4/HCHO and CO2 analysis:

- **For information in air : CO = 300 ppb : CO2 = 380 ppm and CH4 = 1800 ppb**

Detection limit for CO CH4 CO2:

ambient air:
- 50 ppb with H2 (5.5)

pure gas:
- 50 ppb with N2 (5.5)
- 5 ppb with N2 purifier

Detection range:

ambient air:
- 0 - 10 ppm (CO/CH4) & 0 - 1000 ppm (CO2)

pure gas:
- 0 - 10/20/50ppm

Relative Standard Deviation at middle range :

- < 0.3 %over 48h (RT)
- < 2 % over 48 h (Conc.)

Results:

- Data storage
- 4-20mA current output (option)
- Module for 4 output 4-20 mA current output (option)
- Modbus / Jbus or MGS1 communication protocol (option)

Cycle time:

- 5 minutes for CH4/CO2
- 10 minutes for CH4 CO CO

Gas supply:

- **N2 as carier gas for better sensitivity**
- H2 (FID and carrier gas): 30 ml/min (inlet 2 bars ; 1/16» swagelock)
- Air (FID): 180 ml/min (inlet 3 bars; 1/8» swagelock)
- Sample inlet (vacum pump) ¼» swagelock
- Pneumatic valve 90ml/commutation

Sample loop:

- Injection loop 0.5 or 1 or 2 ml ,depending of the range.

Power supply:

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

Electrical consumption:

- 250 VA

Dimensions and weight:

- Rack 482 mm (19"), Height 177mm=4U, Depth 600m 5U for C11022
- Weight: 20kg

CLICK HERE FOR ADDITIONAL DIMENSIONS DETAILS

To order:	Model:
chroma CO (4U)	C11000
Needs a supervisor	
Supervisor (5U)	XXX022

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

24 7 365 TURN KEY SOLUTION

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