

ONLINE ANALYTICAL SOLUTIONS EXPERTS

GAS ANALYZER GC 866

C1 to C6+

chromEnergy

Continuous natural gas measurement
Automated system for measurements in the range: ppm or %



Model: C42022 (5U)

Main applications:

Heating value measurement
Natural gas composition
Propane composition
Product quality / process control

Targetted compounds and results:

 $C6+/N_2/CO_2/C2/C3/IC4/NC4/NeoC5/IC5/NC5$ ICV / SCV / WOBBE / Density / Relative density / Z mix / Mass molar CH4 / CO2 / N2 / O2 / H2S

Main markets:

Petrochemical Gas transport Process Biogas

Standards:

ISO 6974-4, ISO 6976 (calculation in accordance with ISO 6976)

SCAN or CLICK ME



CH₄

CO2

N₂

0,

H25*

*In option

Chromatotec® is specialized in VOC, Sulfur and permanent gases analysis down to ultra trace levels (%, ppm, ppb, ppt).

Please visit our website for more details

Updated: October 2025

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Description:

The chromEnergy is an industrial gas chromatograph for analysis and monitoring of C1C6+ in natural gas and gaseous fuels by TCD detection.

Principle:

- · Automatic sampling using a loop
- · Loop injection by automatic valve on the column
- · Back flush column for C6+ analysis and column cleaning
- · Isothermal gas chromatograph
- · Detection of all compounds eluting from the column performed by the micro TCD detector

Key points:

- · Continuous monitoring with automatic online sampling
- · A pressure safety is located at detector outlet to protect the filament
- · Calorific value unit is configurable on request
- · Low maintenance instrument
- · Full traceability of results and calibration, more than 10 years data
- · Automatic control with process device
- · Intelligence system with tunable and interactive alarms levels
- Powerfull VISTACHROM® Chromatotec® software included in the flow computer:
 - Remote monitoring & injection control
 - · Full traceability with on board archiving of results and chromatograms
 - · QC Set up and control of threshold alarms
 - Data export by MODBUS / 4-20 mA / 0-10 V
 - · Time stamp results
 - · Algorithms using analog and digital signals received from flowmeters, temperature, pressure and density transmitters

Available options:

- Explosion proof Exp box
 - ATEX Zone 2 : Ex II 3G Ex pz IIC T4
 - Class 1 Div 2, group B, C & D
- Multiple stream selector (up to 16 streams with one analyzer)
- Calculation modules (average / statistics / heating value...)
- Module 4-20 mA / 0-10 V 4 output and 0 mA for instrument default
- · Electric selection valve to reduce air consumption
- · Gas cleaner
- 24 V DC power supply
- · Carrier gas purificator
- H₂S measurement at low ppm range
- Temperature Regulation (Heating and Cooling)
- Alarm Driver (available in RTDB)
- H₂ analysis with a second GC-TCD module integrated inside a rack- or wall-mounted enclosure.

Technical specifications:

Detection limit:

· Down to 10 ppm on Hexane

Detection range:

• ppm to %

Relative Standard Deviation: Repeatability:

- RSD from 3 % to 0.5% over 48 h (concentration)
- RSD < 0.5 % over 48 h (retention time)

Supervisor:

- · Embeded computer Windows® based with LCD display
- · 32 GB of Hardware storage on SSD memory

Communication:

- · Communication protocol MODBUS
- 4-20mA
- Ethernet

Cvcle time:

- 12 minutes for C6+ / N₂ / CO₂ / C1 / C2 / C3 / IC4 / NC4 / NeoC5 / IC5 / NC5
- 10 minutes for CH4 / CO2 / O2 / N2
- 6 minutes in option

Gas supply:

- · Carrier gas : He (4 bar; 1/16") : 18 ml/min
- · Calibration inlet: 1 bar; 1/16"
- · Sample inlet: 1 bar; 1/16": 20ml/min
- Pneumatic valve 90 ml/commutation (0 ml in option)

Power supply:

Main (230 V / 115 V 50 Hz/60Hz)

Electric consumption:

· Average: 100 VA; Peak: 200 VA

Dimensions and weight:

- Rack: 19" (5U)
- · Height: 222 mm
- Width: 482 mm
- Depth: 660 mm
- · Net weight of analyser: 22 kg

CLICK HERE FOR ADDITIONAL DIMENSIONS DETAILS

To order:

Model: C42022

XXX060-Z-ATEX

XXX060-Z

chromEnergy (integrated computer) Cabinet for ATEX Zone 2 Cabinet for Class 1 Division 2 C1D2 International certification

XXX061 Stainless steel wall-mount box (304) XXX934

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



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