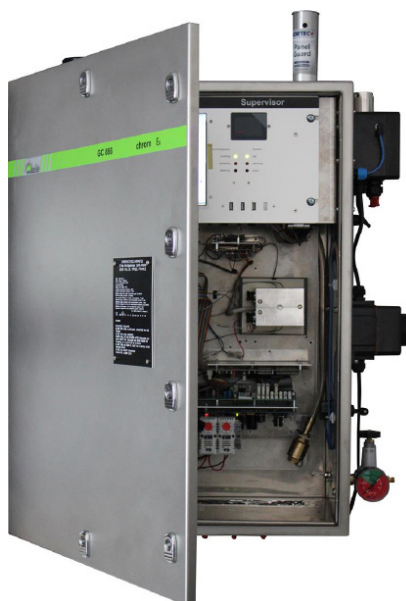


chromEnergy Exp ATEX

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



**ATEX:
zones 1 and 2
GROUP IIC T4**

Model: C42022-ATEX zone 2

Main applications:

Heating value measurement
Natural gas composition
Propane composition

Targetted compounds and results:

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

Main markets:

Petrochemical
Gas transport
Process

Certifications:



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: December 2017

C1 to C6+

CH₄

CO₂

N₂

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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:

- Cylinder calibration inlet with specific method for automatic calibration
- 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 storage
- Automatic control with process device
- Intelligence system with tunable and interactive alarms levels
- IP 66 cabinet with Z purge in standard equipped with a by-pass key for service
- Powerful 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:

- External multiple stream selector (up to 16 streams controlled by the analyzer)
- Calculation modules (average / statistics / heating value...)
- Electric selection valve to reduce air consumption
- Gas cleaner
- 24 V DC power supply, can work on battery or solar panel
- Vortex cooler (air consumption depending of external t°)
- X - Purge for Zone 1
- Inert purge with N2 for low consumption of purge gas with X-purge (can work on N2 cylinders)
- Internal electric heater and/or cooler for temperature regulation of the Exp cabinet with thermal insulation

Technical specifications:

Detection limit:

- Down to 10 ppm on Hexane

Detection range:

- ppm to %

Relative Standard Deviation: Repeatability:

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

Cycle time:

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

Supervisor:

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

Communication:

- MODBUS Communication protocol
- 4-20mA
- Ethernet
- 3G module (optional)

Gas supply for GC operation:

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

Gas supply for Exp cabinet:

- If air used for dilution: 30 l/min in continue
- If nitrogen used for dilution: 500 l to purge the cabinet and < 0,5 l/min in continue to maintain overpressure

Power supply:

- Main (230 V / 115 V 50 Hz/60Hz)
- 24 V DC in option

Electric consumption:

- Average: 100 VA; Peak: 200 VA without options

Dimensions and weight:

- Height: 800 mm
- Width: 600 mm
- Depth: 300 mm
- Net weight of analyser: 40 kg

To order:

chromEnergy Exp ATEX zone 2
chromEnergy Exp ATEX zone 1

Model:

C42022-ATEX-Z2
C42022-ATEX-Z1

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

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