

ONLINE ANALYTICAL SOLUTIONS EXPERTS
GAS ANALYZER GC 866
H₂

CO

CH₄O₂

Neon

CO₂N₂H₂S*

chromaTCD

Universal Detector

 Online analysis and monitoring of permanent gases
 and/or hydrocarbons from low ppm to %

Model: C41022

Model: C41022-ATEX

Main applications:

Pure gas quality control : UHP (Ultra High Purity)
 Process
 Fermentation control
 Dissolved oxygen in water

Targetted compounds:

O₂ / CO₂ / CO / Ne / H₂
 CH₄ / Ethane / Butane / Propane / H₂S

Main markets:

Refineries / Petrochemicals
 Process
 Ambient / Industrial air monitoring
 Odor impact management

Certification:

ATEX, IECEx, CSA, CSA international



SCAN or CLICK ME



*In option 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: October 2024

chromaTCD

Universal Detector

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Description:

The chromaTCD is an autoGCTCD (Thermal Conductivity Detector) for the analysis of permanent gases and/or hydrocarbons.

Principle:

Automatic sampling using a loop.

Automatic loop injection on metallic packed column.

Isothermal gas chromatograph.

Detection of all compounds eluting from the column performed by TCD.

Signal provided by measurement of thermal conductivity difference between the reference cell (carrier gas) and the measure cell (outlet of the column) is measured.

The different **parameters** (data, chromatogram, integration report...) are **transferred via a RS-232** port and they are visualised and reprocessed with our VISTACHROM software.

Key points:

Automatic calibration/validation of the data from external cylinder.

Continuous monitoring with automatic online sampling.

Analytical performances: Specific, linear and very sensitive TCD detector.

Long term stability.

Extremely low maintenance.

Very long life time detector with security for filament protection.

Low gas consumption, can be reduced in option.

More than 10 years data storage.

Automatic control with process device.

Intelligents system with tunable and interactive alarm levels.

Powerful VISTACHROM Chromatotec® software:

- 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

Options:

- Carrier gas purifier for UHP analysis
- Automatic data transfert through: Module for 4 outputs 4-20mA / Modbus RTU or TCP IP / MGS1
- Calculation modules (Average / Statistics / Odor unit OU e/m3 and more)
- **Automatic results validation**
- 24 V power supply
- **Explosion proof version Exp for ATEX, IECEx zone 1 and 2 and also for CSA C1D2**
- Hydrogen and Nitrogen generator
- Multiple stream selector (up to 16 streams with one analyser)
- **Sampling pump in 24V DC or airmoPUMP (XXX901)**
- Pressure and temperature measure
- **Mass Flow Controller** (MFC, in order to improve dilution precision and so calibration quality)
- Electric selection valve to reduce air consumption
- Wall mounted box XXX934
- Touch screen for wall mounted version XXXScreen
- VORTEX cooler and/or internal heater for temperature control of the wall mounted or Exp cabinet

Product technical specifications:

Permanent and/or organic gas analysis:

- Neon, H2, O2, N2, CH4, CO, CO2, CHX...

Detection limit:

- Neon and H2 ≤ 2 ppm

Detection range:

- ppm to %. Depending on the options (loop and amplification)

Relative Standard Deviation: Repeatability

- RSD < 5% over 48h (concentration)
- RSD < 0.6% over 48h (retention time)

Cycle time:

- 10 minutes for H2 and for O2 / N2

Supervisor:

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

Communication:

- Ethernet, remote control

Gas supply:

- He as carrier gas (inlet: 3.5 bar ; 1/16" double ferrule)
- Calibration inlet : 1 bar ; 1/16" double ferrule
- Sample inlet : 1 bar ; 1/16" double ferrule
- Pneumatic valve 90 mL/ commutation

Volume sampled:

- 0.1 to 2 mL depending on application and detection range

Power supply:

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

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: 20 kg
- **Exp version:**
- Height: 800 mm
- Width: 600 mm
- Depth: 300 mm
- Net weight: 40 kg

[CLICK HERE FOR ADDITIONAL DIMENSIONS DETAILS](#)

To order:

chromaTCD rack 5U
chromaTCD Exp ATEX zone 2
chromaTCD Exp ATEX zone 1
chromaTCD Exp IECEx zone 1
chromaTCD Exp CSA C1D2

Model:

C41022
C41022-ATEX-Z2
C41022-ATEX-Z1
C41022-IECEx-Z1
C41022-CSA-C1D2



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

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