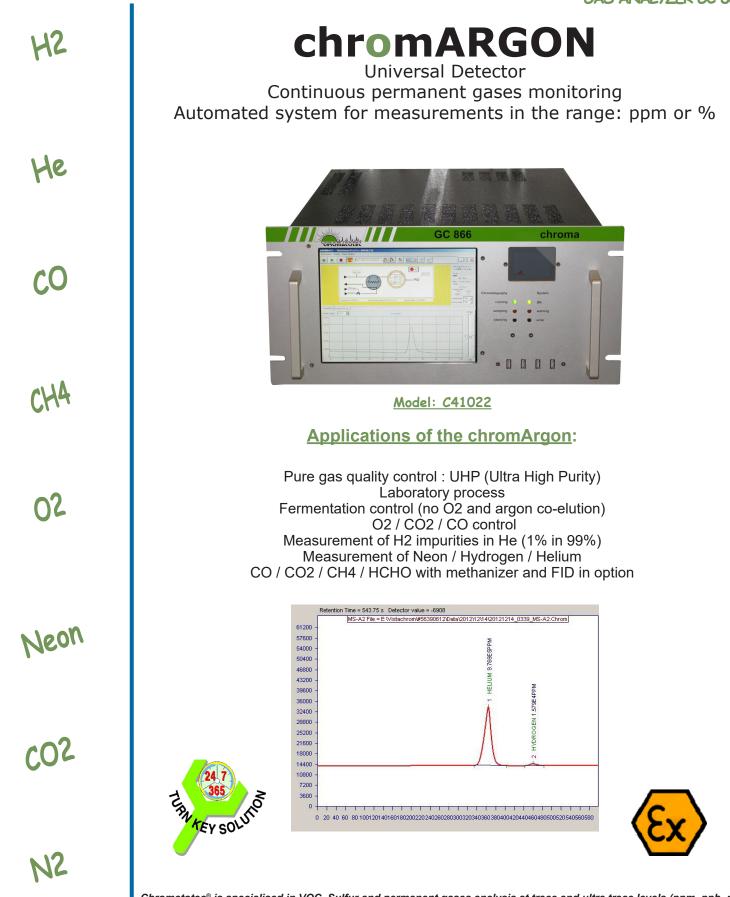




GAS ANALYZER GC 866



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.

WWW.CHROMATOTEC.COM

chromARGON Universal Detector



Continuous permanent gases monitoring

Automated system for measurements in the range: ppm or %

Principle:

The chromARGON is an automatic, industrial or laboratory gas analyzer. The temperature setting is isothermal. The sample comes through the sampling loop. Then the sample is injected into an analytical column (with an automatic valve) for separation. Different column can be used (e.g. packed column). After separation, the amount of each compound is measured using an universal detector, the catharometer.

An oven is installed in order to allow the regeneration (to avoid contamination) of the column at 250°C.

A pressure safety is inserted just after the detector in order to protect its wires.

The catharometer detector:

The Thermal Conductivity Detector (TCD) can detect all kind of compounds. The Wheatstone bridge is made of 4 Tungsten-Rhenium wires. It works with constant current or constant voltage. With the detector, a thermal conductivity difference between the reference cell (carrier gas) and the measure cell (outlet of the column) is measured. This value is transferred to an electrometer and the generated signal is proportional to the compounds concentration in the sample. The signal is then transferred to the CPU board and the microprocessor processes the data (integration, mass or concentration calcul, peaks identification...).

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

VISTACHROM® software:

The software developed by Chromatotec[®] allows:

- Remote control
- · Full traceability with on board archiving of results
- · Program to stop the detector filament (to protect them) inside a sequence (e.g. column cleaning)
- · Programation and control of threshold alarms
- · Ponctual (laboratory) or continuous measurement
- · Data export by MODBUS / JBUS / MGS1 / 4-20mA / 0-10V

Options:

- · Gas cleaner
- Modul 4 x analog output 4-20 mA or 0-10 V.
- · Alarms module
- · Automatic results validation
- · 24 V power supply
- Explosion proof Exp box Ex Specification Class1 Div2, groupC&D
- · Hydrogen and Nitrogen generator
- · Multiple stream selector (2 to 10 streams with one analyzer)
- · Carrier gas purificator
- Sampling pump in 24V DC or airmoPUMP (XXX901 or XXX915)
- · Pressure and temperature measure
- · Mass Flow Controller (MFC, in order to improve dilution precision and so calibration quality)

Product technical specifications:

Permanent and/or organic gas analysis:

• Neon, H2, He, O2, N2, CH4, CO, CO2, CHX... **Detection limit:**

• Neon, H2 and He ≤ 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).

Results:

- · Full result storage (data and graphics)
- Output 4 x 4-20 mA (in option)
- Communication protocol MODBUS (in option)
- Alarm module

Cycle time:

• 10 minutes for H2 / He and for O2 / N2

Gas supply:

- Ar as carrier gas (inlet: 3.5 bar ; 1/16" swagelock)
- · Calibration inlet : 1 bar ; 1/16" swagelock
- Sample inlet : 1 bar ; 1/16" swagelock
 - Pneumatic valve 90 mL/min 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" (4U)
- · Height: 177 mm
- Width: 482 mm
- Depth: 660 mm
- Net weight of analyser: 20 kg

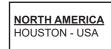
If option C41022, rack 5U

To order:

| ChromARGON (integrated computer 5U) airmoPUMP | C41022 XXX901 |
|---|------------------|
| airmoPUMP for 6 ways (need a multi- | XXX915 |
| plexor) ChromaCO (CO, CH4, CO2) for LDL in | C11000 |
| ppb | |

Model:

Chromatotec® is continuously improving its products, therefore these specifications are subject to change without notice To contact us: info@chromatotec.com



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