

airmOCHO

Analysis of formaldehyde and acetaldehyde in air or pure gas



Model: A13000 (5U) computer in option

Formaldehyde

Acetaldehyde

Methanol

Environment:

Urban/Non urban area pollution control
 Indoor measurements
 PAMS /CE analysis
 Out of plant

Process:

Industrial Hygiene
 Fence line
 Acetaldehyde
 Formaldehyde

Toxicity:

VOC screening in food and beverage industry

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: November 2017

airmoHCHO

Analysis of formaldehyde and acetaldehyde in air
or pure gas



Principle:

This instrument uses a 6-port valve with a single sorbent trap, and a metallic capillary column.

It has a minimum detection level of as low as 8 ppb in ambient air. The airmo H-CHO uses a 3 phases trap for the analysis of Formaldehyde.

Formaldehyde and acetaldehyde react with a methanizer for more sensitivity with FID

Miniaturization, sensitivity, mobility and flexibility are its main features.

Everything from the sample port up to the data storage is integrated in a 19" - rack 5U.

Programmed gradient temperature of the oven and pressure/flow control of the carrier gas.

Before final delivery the analyser is tested for three weeks by the quality control department.

The Vistachrom software enables the user to view and store data on an industrial computer. It provides comfortable user friendly utilities to recalculate, calibrate and export data and to configure the measurement.

The software allows the calculation of retention time, area, mass or concentration profiles.

Calib is a very important option for good result in ppb range, N2 is necessary.

We use permeation tubes for calibration

Product technical specifications:

Light VOC analysis:

- formaldehyde / acetaldehyde

Detection limit:

- less than 4 ppb for formaldehyde

Detection range:

- 0 - 100 ppb / amplification 3 in standard
- 0 - 1000 ppb
- 0 - 10 000 ppb

Relative Standard Deviation:

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

Results:

- Data storage
- 4-20mA current output (option)
- MODBUS / JBUS or MGS1 communication protocol (option)

Cycle time:

- 15 min as standard (20 min or 30 min optional)

Gas supply:

- H2 (FID): 30 ml/min
- Air (FID): 180 ml/min
- Carrier gas N2
- Air (FID): 180 ml/min (inlet 3 bars ; 1/8")
- Sample inlet (vacuum pump) 1/4"

Sample volume:

- 20 to 240 ml (programmable) in standard

Power supply:

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

Electrical consumption:

- Mean: 180 VA, peak 400 VA

Dimensions and weight:

- Rack: 19" - (5U)
- Height: 222mm
- Width: 482mm
- Depth: 660mm
- Net weight: 20 Kg

Options:

- MODBUS / JBUS or MGS1
- Analog output 4-20 mA or 0-10 V or alarms
- Automatic validation and calibration
- 24 V power supply
- Hydrogen and zero air generators for transportable analyzers
- Multiple Stream selector (2 to 6)
- Nitrogen generator

To order:

airmo HCHO (5U)
Needs a supervisor
Supervisor (5U)

Model:

A13000
XXX022

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

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