

# airmoVOC C2-C6

Designed for analysis + monitoring of "light" hydrocarbons. It is used for the measurement of volatile hydrocarbon in the range of C2 to C6 i.e. from Ethane through 1,3-Butadiene up to Benzene (and other C6 compounds).



**Model: A11000**

## Environment:

Urban / Non urban area pollution control  
Indoor measurements  
BTEX / PAMS / CE analysis  
Plant / process emissions

## Toxicity:

Benzene, 1,3-butadiene  
VOC screening of CO2 quality for the food and beverage industry

## Process:

Industrial Hygiene  
Fence line monitoring  
Acetaldehyde/benzene



Selected by US EPA



1996



2006



2010-C212

2010

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: May 2019

Butenes

Acetylene

Ethane

1,3-butadiene

Pentenes

# airmoVOC C2-C6



Designed for analysis + monitoring of "light" hydrocarbons. It is used for the measurement of volatile hydrocarbon in the range of C2 to C6 i.e. from Ethane through 1,3-Butadiene up to Benzene (and other C6 compounds).

## Principle:

The instrument uses a 6-port valve with a single sorbent trap, and a metallic capillary column. It has a minimum detection level as low as 15 ppt (i.e. **1,3-Butadiene**) in ambient air, and analyses up to 32 compounds during a single analysis. The **airmo VOC C2 – C6** uses a **thermoelectric cooling** system to control the temperature of the sample trap when required, for example for the analysis of **Ethyne**. 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 4U. Programmed gradient temperature of the oven and pressure/flow control of the carrier gas by the **piezo-valve**. Before delivery the analyser is tested for one week by our quality control department. The Vistachrom software enables the user to view and store data on a PC. It provides user friendly utilities to recalculate, calibrate and export data and to configure the measurement. The software allows the calculation of retention time, area, mass and/or concentration profiles.

Example of analysed VOC's

PAMS Photochemical Assessment Monitoring Stations	USA	EUR
All VOC below can be analysed	20/55 AIRS FORMAT*	17/30
<b>Ethane C2</b>	43202	X
Ethylène/Ethene	43203	X
Acétylène/Ethyne	43206	X
<b>Propane C3</b>	43204	X
Propylène/Propène	43205	X
iso-butane (2-methyl propane)	43214	X
<b>N-butane C4</b>	43212	X
1-butène	43280	X
Iso-butene (2-methyl propene)	43215	
Trans-2-butène	43216	X
Propyne		
Cis-2-butène	43217	X
1,3 butadiène		X
Cyclopentane	43242	
iso-pentane (2-méthyl butane)	43221	X
<b>N-pentane C5</b>	43220	X
1-pentène	43224	X
Trans-2-pentène	43226	X
Cis-2-pentène	43227	X

## Product technical specifications:

### Light COV analysis:

#### Detection limit:

- 15 ppt for 1,3-Butadiene or 33 ng/m<sup>3</sup>

#### Detection range:

- 0.5 to 100 PPB/amplification<sup>3</sup> in standard

#### 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:

- 30 min as standard (20 min. optional)

#### Gas supply:

- H2 (FID and carrier gas): 30 ml/min (inlet 2 bars; 1/16" swagelock)
- Air (FID): 180 ml/min (inlet 3 bars; 1/8" swagelock)
- Sample inlet (vacuum pump) 1/4" swagelock

#### Sample volume:

- 20 to 240 ml (programmable)

#### Power supply:

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

#### Electrical consumption:

- Mean: 150 VA, peak 360 VA

#### Dimensions and weight:

- Rack: 19" - (4U)
- Height: 180mm
- Width: 482mm
- Depth: 600mm
- Net weight : 17 Kg



## Options:

- On-line results are transmitted via a MODBUS / JBUS or MGS1 communication protocol
- Analog output 4-20 mA or 0-10 V
- **Automatic** validation / calibration
- 24 V power supply
- Hydrogen and zero air generator for transportable analysers.
- Multiple Stream selector (2 to 6)

## To order:

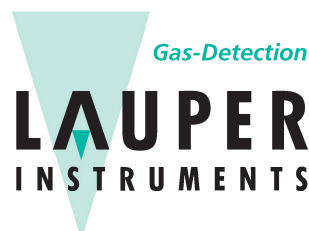
airmoVOC C2-C6 (4U) (with internal cooling)  
Needs a 5U supervisor  
Supervisor (5U)  
Chromatotec® computer 5U, LCD display,  
Vistachrom software, 2 x RS232

## Model:

A11000

XXX015

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



**Lauper Instruments AG**

Irisweg 16 B  
CH-3280 Murten  
Tel. +41 26 672 30 50  
info@lauper-instruments.ch  
www.lauper-instruments.ch