

microVOC

Accurate, portable & user-friendly VOC analyzer



Model : μ -VOC

Applications

Public building occupational exposure verification
Industrial hygiene measurement
Chamber test studies
Material emissions quantification
Building management
Concentration level continuous monitoring

Standards

IEC/EN 61010-1:2010
EMC: NF EN 61326-1:2013



Chromatotec® specializes in VOC, sulfur and permanent gas analysis at trace and ultra-trace levels (ppm, ppb, ppt).
Please visit our website for more details.

Updated: January 2022

Benzene
Toluene
Ethylbenzene
Xylenes
Phenol
Acrolein
1.3 Butadiene

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Principle

microVOC is a compact VOC analyzer which allows continuous and real-time qualification and quantification of benzene, toluene, ethylbenzene, xylene, acrolein, phenol et 1.3 Butadiene.

- Field-portable design
- Easy to use
- Labour saving
- Exceptional Accuracy
- Highly sensitive
- Real-time continuous monitoring
- Smart, embedded software

Advantages

User friendly

- Compact size and light weight
- Deployment in less than 5 minutes
- Powered by either plug-in or battery
- Minimal carrier gas consumption
- Rapid calibration with gaseous BTEX mixture or only toluene
- Compatibility with canisters and FLEC® System

Rapid & accurate measurements

- Short analysis time: 10 minutes
- Detection limit lower than 1 ppb for benzene

Analysis programming, monitoring & data logging

- Color touch screen with standard/expert user modes
- Method programming capability
- Results in near real-time
- Data logging for quality control

Issued from French academic research

- Innovation from CNRS & Strasbourg University
- Patented microfluidic device
- Supported by EU and innovation programs

Options:

- Sampling Teflon line (OD: 1/8"; L: 150 cm)
- Model PID in standard for BTEX and in option for VOC like methanol ETO, THT...
- Model TCD in option for H₂, O₂, N₂, CO, CO₂, CH₄...
- Printed manual
- 3G module
- Report'air : online measurement reporting tool

Name:

microVOC
microBTEX

Model:

μ-VOC-001
μ-BTEX-001

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

To contact us: sales@chromatotec.com

Product technical specifications

Detection limit

- Benzene & Toluene: ~ 1 ppb
- Ethylbenzene & m+p-Xylenes: ~ 2 ppb (with default settings) / o-Xylene: ~ 4 ppb

Configuration & cycle time

- BTEX : 10 min
- Benzene + 1.3 butadiene = from 10 to 15 min
- Benzene = 5 min (3 min in option)
- Other application on demand

Detection range

- 0-10ppm / 0-100 ppm / 0-1000ppm

Measurement

- Detector : PID
- Temporal resolution 0.1 seconds
- Response time : One measurement every 10 minutes (default settings)
- Analysis condition : Gas T°: 5 - 40°C; Gas RH: 20 - 80%; Atmospheric pressure
- Calibration : Gaseous BTEX mixture or gaseous toluene

Sampling

- 200μL loop or lower
- Gas flow rate : < 10 - <100 mL min⁻¹
- Carrier gas : Nitrogen 1 - 4 bar (default setting 4 bar/ 2.5 mL min⁻¹)
- Supply inlet connection : 1/8"

Instrument supply

- Power supply : Input 100 - 240V ±10%; 1.5 A max; 47 - 63 Hz - Output 15V; 6.67A 100W
- Battery life : Lithium-Ion / > 4h (2x12 volt)
- Power consumption : max 75 w

General

- Dimensions (analyzer) : 32×28×15 cm; 6.0 kg
- Dimensions (suitcase) : 56 x 45 x 25 cm; 18 kg
- Operational conditions : 0 - 40°C / 20 - 80% RH
- Storage conditions : -20°C - +40°C / 0 - 85% RH
- Display : 7" TFT display; resolution 800 x 480; integrated touchscreen

Software & communication

- Embedded software: Expert and standard modes; Data saving; Analysis setting, launching and monitoring; Defects and maintenance management.
- USB : Data transfer (area, retention time, concentration)
- Ethernet : Communication and remote control

Mobility and accessories

- Carrier case with handle and integrated pre-cut foam for accessories
- Power supply & cable; Particle filter; Filter strainer; Carrier case with pre-cut foam; 1/8" inox caps with associated ferrules; Analysis column; 58L Nitrogen bottle with adapted manometer; Teflon tube and associated ferrules for carrier gas; Spanner (10 - 11 mm); Stylus.

Other feature

- Comptability : Canister & FLEC® system

NORTH AMERICA
Houston - USA

EUROPE
Bordeaux - FRANCE

ASIA
Beijing - CHINA