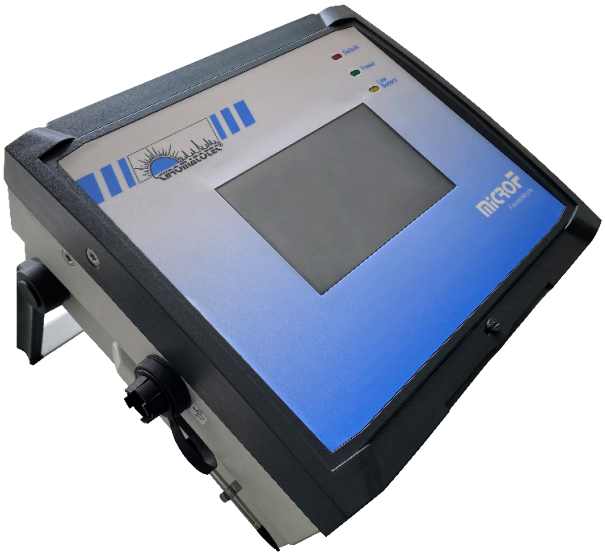
ONLINE GAS AND LIQUID ANALYZER EXPERTS

Formaldehyde

microF

Accurate, portable & user friendly Formaldehyde analyzer



Model : μ-F1-001

Applications

Public buildings occupational exposure verification
Industrial hygiene measurement
Chambers tests studies
Material emissions quantification
Building management
Medical studies
Aqueous solutions analysis
Concentrations levels continuous monitoring

Standards

CE Certification:
IEC/EN 61010-1:2010
EN 61010-2-081:2015

EMC: EN 61326-1

ETV: LNE04003

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.

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Principle

microF is a compact Formaldehyde analyzer which allows continuous and real-time qualification and quantification of Formaldehyde.

- Continuous and real time monitoring.
- Temperature and relative humidity monitoring are included.
- Field portable
- Easy to use
- Labour saving
- Accuracy
- Highly sensitive
- Smart embedded software

Advantages

User friendly

- Compact size and low weight
- Deployment in less than 5 minutes
- Powered by mains or battery
- No carrier gas needed
- High filters lifetimes due to low air sample flow rate
- Low reagent volume & quantity of air sample are required
- Calibration from gas/liquid formaldehyde solution
- Compatibilty with canisters and FLEC® System

Rapid & accurate measurements

- Real-time and continuous measurements
- Time resolution down to few seconds
- Detection limit lower than 10 ppb
- No interferences
- Gaseous & aqueous formaldehyde concentration measurement

Analysis programmation, monitoring & data logging

- Color touch screen with standard/expert users modes
- Sequence programmation
- Results in near real-time
- Temperature & relative humidity monitoring
- Data logging for quality control
- Complementary computer software for efficient & easy data processing

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); Spanner (10 - 11 mm); Printed manual.

For ordering:
Micro F

Model:
µ-F-001

Product technical specifications

Detection limit

- 10 ppb (with default settings)

Detection range

- 0 - 300 ppb (other range on request)

Measurement

- Detector : PhotoMultiplier
- Temporal resolution : 1 to 120 seconds
- Response time : 10 minutes (with default settings)
- Condition : Gas T°: 5 - 40°C; Gas RH: 20 - 80%; Atmospheric pressure
- Calibration : Gaseous Formaldehyde or liquid solution

Sampling

- Method : Continuous flow
- Gaz flow rate : 0 - 30 mL min^{-1} (default setting 20 mL min^{-1})
- Gas flow rate uncertainty : ± (1.5% Read + 0.5% Full Scale)
- Liquid flow rate : 0 - 400 µL min^{-1} (default setting 20 µL min^{-1})
- Supply connection : 1/8'' for gas; 1/16'' for liquid

Instrument supply

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

General

- Dimensions : 32×28×15 cm with & 32×36×15 cm without bottle holder / 6.5 kg including bottle holder
- Operational conditions : 0 - 40°C / 20 - 80% RH
- Storage conditions : 0 - 40°C / 0 - 85% RH
- Display : 7'' TFT display; resolution 800 x 480; integrated touchscreen

Software & communication

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

Mobility and accessories

- Carrier case with handle and integrated pre-cut foam for accessories
- DNPH tubes and rings; Power supply & cable; Particle filter; Filter strainer; Carrier case with pre-cut foam; Microporous tube; 100 mL bottles with each storage and analysis caps with ferrules, 1/8'' & 1/16'' inox caps with associated ferrules; Teflon tubes and associated ferrules; Bottle holder; Stylus.

Other feature

- Canister & FLEC® system

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

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