

microF

Accurate, portable & user friendly Formaldehyde analyzer



Model : μ -F1-001

Formaldehyde

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.*

Updated: January 2022

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
- Compatibility 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 programming, monitoring & data logging

- Color touch screen with standard/expert users modes
- Sequence programming
- 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.
- 3G module
- Report'air : online measurement reporting tool

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
- Gas 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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