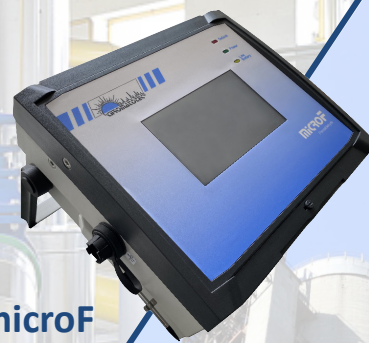


Portables analyzers and detectors

Moisture - BTEX - Formaldehyde - 4WAYS



microBTEX



microF

4WAYS



DET H2O

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

DET H2O : Electrolytic moisture monitor hygrometer

Moisture monitoring in gaseous samples for concentration between 30 ppb and 5000 ppm (v) H₂O.

Chromatotec has expanded its offer with trace moisture probe and now offers complete solutions for the measurement of humidity in chlorine (CL₂), in pure gases including gases with more than 30% oxygen (O₂) or hydrogen (H₂), as well as in medical air and gases in agreement with pharmacopoeia (monograph 1238 «Medical Air» - 737-3 standard of the European Pharmacopoeia).

*These sensors can be integrated into our product line or **can be sold alone**. This allows Chromatotec to offer fully integrated systems for process monitoring, including moisture measurement and gas analysis by GC or specific sensors. They can be configured with the Vistachrom supervision software and integrate alarm management. The analyzer is available both as process or portable version, with an inbuilt pressure reducer.*

Moisture monitoring in Chlorine and corrosive gases

The chlorine DET H₂O is based on electrolytic analysis for water traces measurement in chlorine. It controls all conditioning functions for analysis such as pressure and flow controls, measuring sensor validation device and inert gas purging.

The chlorine DET H₂O is housed in Polyester enclosure rated IP 65 (NEMA 4X) compatible with corrosive environments and temperature controlled usually at 40°C +/- 1°C. The measuring principle is based on Faraday's law of electrolysis and does not require calibration, however the cell reactivity can be validated by internal device.

Usually installed in non-corrosive area or in control room, the chlorine DET H₂O control unit is linked to the analyzer sensor by a standard two wires cable, maximum loop length is 2 Km. The chlorine Moisture Monitor range, alarm threshold points and other parameters are programmed via integrated keyboard with digital read-out.

- portable with battery power
- fix online and ATEX in option

European Pharmacopoeia and medical gases

Our moisture monitor the DET H₂O offers continuous moisture detection and monitoring in medical and pure gases such as O₂. According to the monography n° 1238 « Medical Air » of the European Pharmacopoeia, the highest admissible water amount for an air qualified of « breathable » is of 67ppmV (dewpoint at -45°C). Medical air (composed of 22% of oxygen and 78% of nitrogen) is used as a carrier gas to dilute anesthetic substances such as Nitrous oxide.

This electrochemical measurement method gives very precise values (scale of 0,5ppmV) and between 0-10 or 0-1000ppmV, even in ppb according to the specificity of the request.



Accurate, portable and user friendly analyzers

Chromatotec has integrated portable analyzers for BTEX and Formaldehyde monitoring. These portable instruments offer rapid and accurate measurements with detection limit lower than 1 ppb.

microBTEX analyzer

microBTEX is a compact BTEX analyzer which allows continuous and real-time qualification and quantification of Benzene, Toluene, Ethylbenzene (ETO) and Xylene. Continuous and real time monitoring.

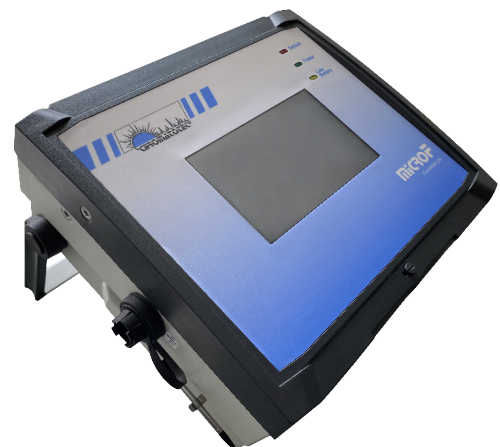
- Low consumption of carrier gas
- Calibration from gaseous BTEX mixture or only Toluene
- Short time of analysis : 10 minutes
- **THT, Methanol, Ethylene Oxide...**
- On battery power



microF analyzer

microF is a compact Formaldehyde analyzer which allows continuous and real-time qualification and quantification of Formaldehyde (HCHO). Continuous and real time monitoring. Temperature and relative humidity monitoring are included.

- No carrier gas
- Calibration from gas/liquid formaldehyde solution
- High filters lifetimes due to low air sample flow rate
- Low reagent volume & quantity of air sample are required
- Real-time and continuous measurements
- Time resolution down to few seconds
- On battery power



User friendly solutions

- Compact size and low weight
- Deployment in less than 5 minutes
- Powered by mains or battery
- Rapid calibration
- Compatibility with canisters and FLEC® System

Analysis programming, monitoring & data logging

- Color touch screen with standard/expert users modes
- Sequence programming
- Results in near real-time

Portable and automatic multitubes air sampler (4 channels)

4WAYS on site sampling

4WAYS is a portable serial automatic air sampler which allows to program sampling sequences with fast implementation in every environment. Temperature and relative humidity monitoring.

- Air inlet quick external connectors
- Integrated circuit purge to clean the system
- External 7 µm particulate air filter
- **DNPH tube with adaptor for HPLC analysis**
- Standard tube for sampling
- On battery power

Secured & controlled sampling

- Secure carrier case
- Tube locking technology preventing sample loss and ingress contaminants
- Constant flow sampling provided by an integrated mass flow controller
- External flow control possible



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