Mobile gas analysis

Portable gas chromatograph with internal gas supply

mobilGC 2

made by ECH

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Portable gaschromatograph with internal gas supply

Product description

The MobilGC 2 is an easy-to-use gas chromatograph. The device is suitable for on-site measurements, online process analysis and use in the laboratory. A special feature is the integrated gas supply, which allows on-site use.
The gas chromatograph is equipped with two detectors (FID, WLD), so that the system can be used for different analytical problems.
Commercially available capillary columns as well as packed and micro-packed separation columns can be used. The columns are heated individually, different temperature programmes can be set separately for each column.
The sample can be introduced manually or via an automatic suction pump into a sample loop.
With the comfortable control and integration software fast and precise analyses can be carried out and be evaluated in a variety of ways.
Automatic online measurements are possible.

Applications

- Emission- and immission measurements
- On-site-analysis, process control, online monitoring
- Suitable for continuous limit value monitoring of total concentration of hydrocarbons in gas samples
- Integrated gas extraction technique, specifically for headspace-technique or gas-in-oil-analysis

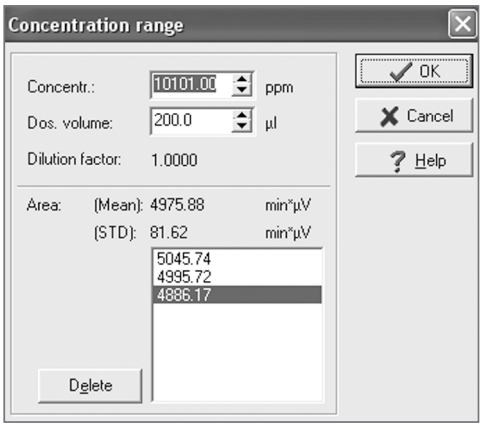
Robust rolling case for off-road use

Advantages

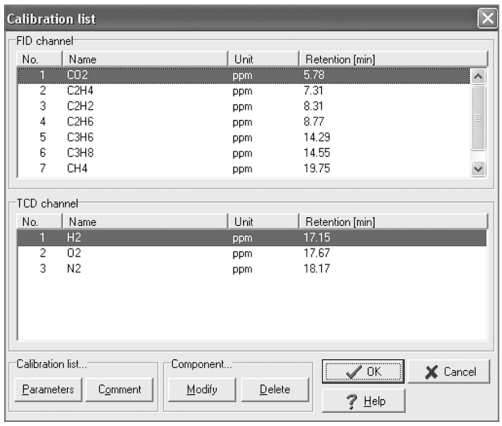
- Integrated carrier and fuel gas supply for one week (40 operating hours)
- One or two commercially available capillary columns (packed or micro-packed separation columns)
- Detectors (FID, TCD) with high detection sensitivity and digital data acquisition
- Comfortable software with various measuring methods for device control
- Hardware adaptation to different sample types
- Fully automatic measurement processes and simple calibration procedure
- Special gas-in-oil analysis with vacuum/partial vacuum degassing

Features and Results

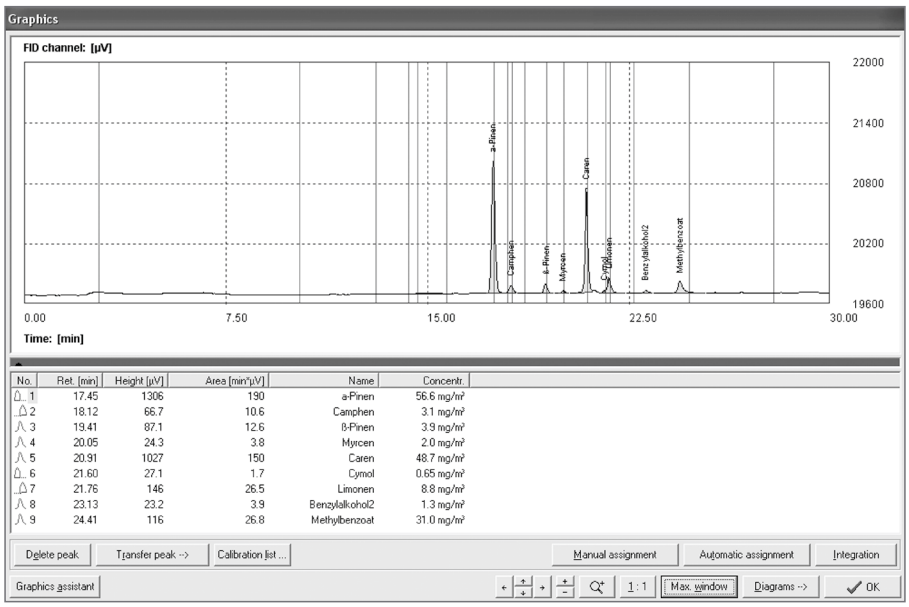
- Individual, column-specific heating (isothermal or with selectable temperature gradient up to 250 °C)
- Application of coupled column techniques
- Carrier gas argon, nitrogen, helium or hydrogen
- Methanizer for quantitative converting of CO and CO_2 into methane
- Automatic evaluation of the chromatograms obtained (single peak and sum peak integration)
- Application-dependent expert systems and evaluation procedures
- Process monitoring by means of overview and detailed measurements



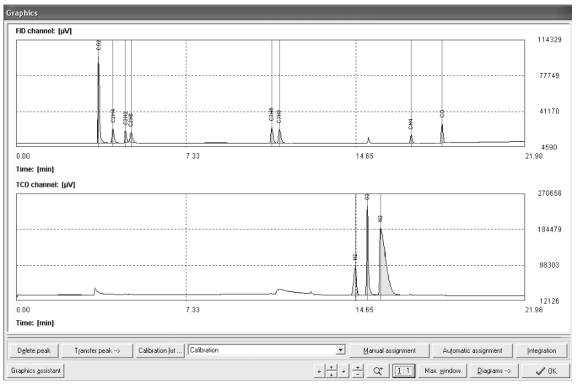
Calibration



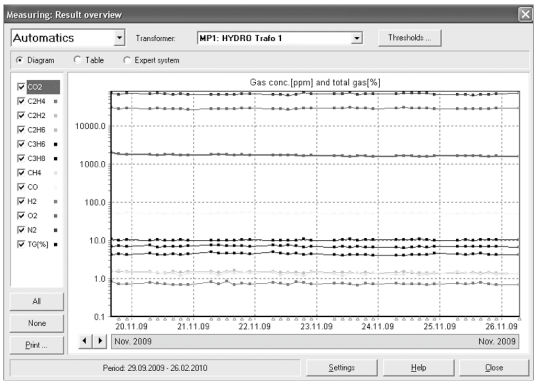
Calibriation list



Emission measurement on the industrial chimney



Chromatogram



Concentration profile

Technical specifications

Carrier gas:	Argon, nitrogen, helium or hydrogen
Internal gas supply:	For one week (40 operating hours)
Detectors:	FID, TCD
Sample dosing:	Manually via syringe or automatic priming pump
Sample volume:	1 mL gas sample or 10 mL oil sample
Number of columns:	Max. 2 (types selectable)
Temperature of column heating:	Max. 250 °C, individually adjustable with temperature programme
Working range:	1 ppm ... 100 %
Resolution:	0.1 ppm
Typical measuring time:	2 ... 30 min (depending on the sample)
Power supply:	230 V/50 Hz
Power consumption:	Up to zu 240 W
Dimensions:	500 x 457 x 305 mm (W x H x D)
Weight:	23 kg
Device control:	PC software (PC not included in the scope of delivery)

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