EXPERTS IN ANALYSIS



mobil GC

Portable gas chromatograph with internal gas supply

mobil



Description

The MobilGC is an gas-phase chromatograph and easy to use. The device is suitable for on-site operation, online-process monitoring and laboratory work. Its special feature is the internal gas supply, which allows the on-site use.

You can chose between two detectors (FID, TCD) or both, according to the analytical problem. Commonly capillary columns as well as packed and micro packed columns can be used. The columns are individually heated. It is possible to adjust various temperature programs for each column. Your sample is injected manually or automatically into a sample loop. The automatic injection is realized by an internal pump.

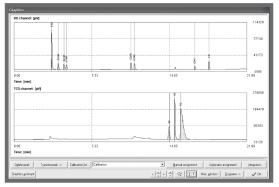
The comfortable software allows fast and accurate analysis and various evaluation modes. Fully automated online measurements are possible.

Applications

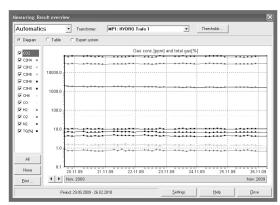
- Emission- and immission measurements
- On-site-analysis, process control, online monitoring
- Suitable for continuous limit value monitoring of total concentration of hydrocarbons in gas samples
- Integrated gas extraction technique, specifically for headspace-technique or gas-in-oil-analysis

Principle

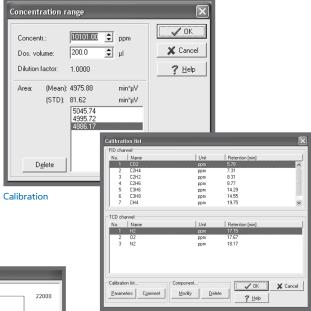
- Separation of the compounds of the injected gas mixture in one or two columns, isotherm or using modifiable temperature program (individual column heating)
- Commonly capillary columns as well as packed and micro packed columns can be used
- Application of coupled column techniques
- Sample dosing realized by use of a sample loop (6-port-valve) or manual injector
- Digital detectors (FID, TCD) with high detection sensitivity
- Carrier gas argon, nitrogen, helium or hydrogen
- Comfortable software for control and automatic evaluation of the chromatograms
- Various expert systems and evaluation procedures according to DIN 38409-H53, ASTM 3612, IEC 60567, IEC 60599 and IEC 61181



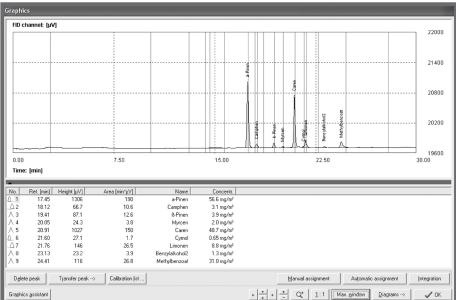
Chromatogram



Concentration profile



Calibration list



Advantages

- Portable gas chromatograph for on-site operation, online-process monitoring and laboratory work
- Device in a case suitable for outdoor use
- Internal gas supply for one week (40 hours) of operation
- Detectors (FID, TCD) with digital data acquisition
- Methanizer for quantitative converting of CO and CO₂ into methane
- Application of common columns
- Individual heating of each column with adjustable temperature programs up to 250 °C
- Adaptation of hardware to various sample types
- Fully automated measurement procedure and easy calibration principle
- Special gas-in-oil-analysis with partial vacuum degassing
- Process monitoring with overview measurements and detail measurements
- Creation of various measurement methods for device control
- Integration of sum peaks and single peaks



MobilGC with 19" standard casing

Specifications

Working range: 1 ppm ... 100 % Resolution: 0.1 ppm

Typical measurement duration: 2 ... 30 min (dependent on the sample)

Sample volume: 0.01 ... 1 mL

Number of columns: Max. 2 (types selectable)

Temperature of column heating: Max. 250 °C, individually adjustable with

temperature programs

Internal carrier gas supply and fuel gas supply:

One week (40 hours) of operation

Power supply: 230 V/50 Hz Power consumption: Up to 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)

We are here for you



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