



**Dr. Gröbel**  
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# On-line Multicomponent Gas Analyzer GASANA

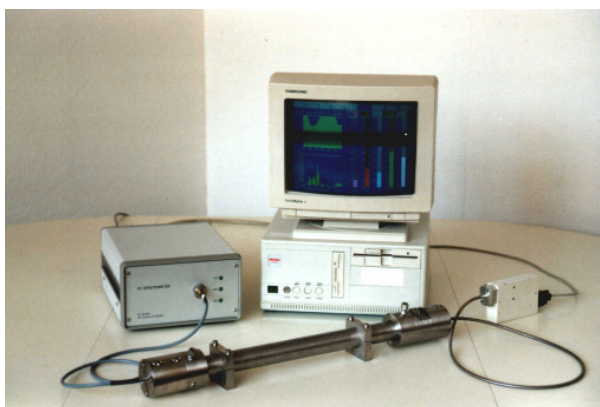


Fig. 1 On-line multicomponent gas analyzer

The gas analyzer GASANA is a measuring device for the fast analysis of gas mixtures. The measuring principle is based on the different UV absorption of the gases. The device consists of an UV light source, the gas measuring cell, the UV-VIS spectrometer (see product sheet UV-VIS spectrometer) and the computer. The gas analyzer can be flexibly used because of the light guide connections between light source, measuring cell and spectrometer. The very robust spectrometer does not have any moving parts and is embedded in a stable aluminium diecast housing.

A high sensitivity and an especially high dynamic range of up to  $10^5:1$  are achieved by the low stray-light construction and a special multiple measurement procedure. Control and data calculations are done by a PC or laptop with USB interface.

## Applications

- Analysis of sulphur, halogen and nitrogen compounds like  $\text{SO}_2$ ,  $\text{H}_2\text{S}$ ,  $\text{NO}$ ,  $\text{NH}_3$ ,  $\text{NO}_2$  and  $\text{Cl}_2$
- Analysis of aromatics and other organic compounds
- On-line process control
- Exhaust and fumes analysis
- Power plants, cement industry, waste combustion, petrochemistry, chemical industry

## Software

- Calculation of concentrations for up to 10 components
- Compensation of dark signal
- Automated selection of measuring time and multiple measurements for high dynamic range
- Calibration by the customer

## Technical Data

Length of light guide:	2 m (standard)
Measuring frequency:	up to 38 spectra/second
Digital resolution:	12 bit
Dynamic range:	$10^5:1$
Gas components:	10
Detection limits:	depending on substance
Graphics display:	up to 2 images/second
	Continuously measuring
Trigger:	1x in and 1x out

## Part number

Gas analyzer GASANA

840200

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