

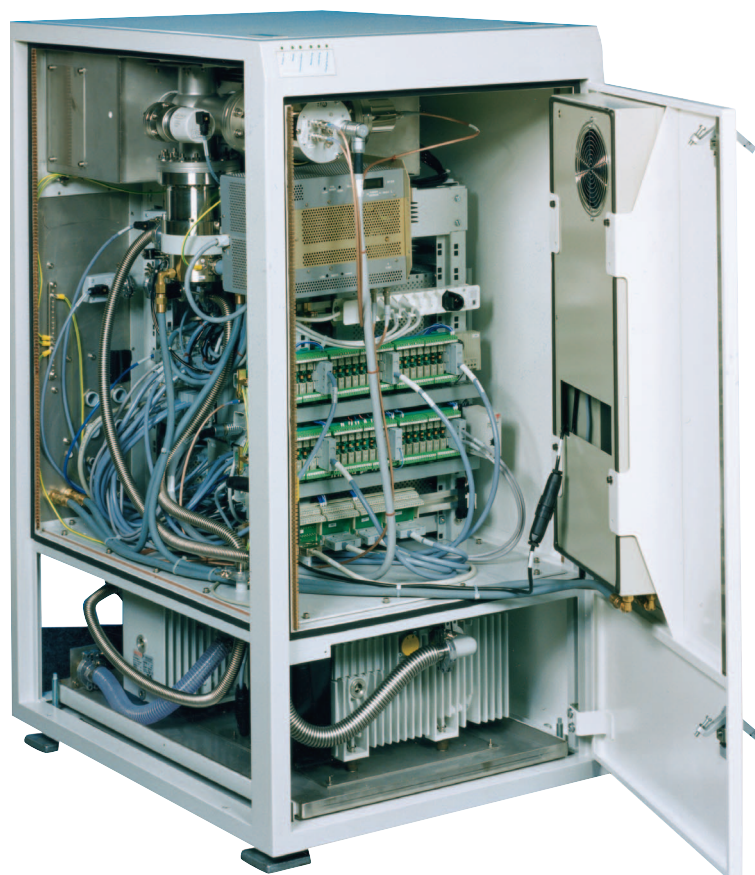


# GAM 300

## GAM 300

Process Analysis for  
Industrial Applications

The **GAM 300** is an universal mass spectrometer system for fast, precise and sensitive online gas analysis. With uptimes close to hundred percent, the **GAM 300** is a powerful workhorse for reliable process monitoring and process control. Routine analysis is performed with high sample throughput and extremely good, long-term stability. This instrument is well suited for various different industrial processes.



# GAM 300

## System

- Online process gas monitor for the automatic gas analysis of technological processes
- Digital controlled mass spectrometer with digital or analogue data output
- High performance quadrupole analyser head with Faraday- and SEM detector for accurate and fast measurements
- Optimized ion sources specified for different applications with long service intervals (Electron Impact Ionization with adjustable ionization energy)
- Gas inlet systems optimized for application specific sample gas taking
- Computer controlled multiplexer for fast process gas stream selection
- Integrated calibration gas unit for automatic operation
- Device housing in robust design with internal air conditioning
- Version in for installation in explosive protected area according ATEX classification available

## Technical Data

Mass range 1-300 amu

64 channels (mass numbers) in one analysis cycle

7 decades dynamic range 0,1 ppm – 100 %

Measuring speed / cycle times 10 ms – 60 s

Response time of the gas inlet system  
300 ms – 2 s (depending on the gas inlet system)

Reproducibility (main components)  
< 1\*10<sup>-03</sup> (0,1 %)

Data interfaces / data output  
digital: PROFIBUS  
analogue: 12 channels (0-10V or 4-20 mA)  
(other interfaces on request)

## Benefits

- **Flexible analysis system for a broad range of applications and sample taking systems**
- **Full automatic operation**
- **Outstanding analytical performance**
- **Measurement of main components and trace components in gas mixtures in one step**
- **Measurements of chemical reactive and corrosive gas components possible**
- **Customer sized hardware and software configurations**
- **Excellent long term stability and reproducibility of the analytical results**
- **High availability**
- **Low cost of ownership**

 **InProcess  
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