



GAM 300

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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 tool 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.



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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 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)
< $1 \cdot 10^{-3}$ (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
- Customized hardware and software configurations
- Excellent long term stability and reproducibility of the analytical results
- High availability
- Low cost of ownership

IPI InProcess
Instruments

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