



# GAM 400

## **GAM 400**

Multipurpose Mass Spectrometer

The modular **GAM 400** mass spectrometer system was designed for functionality and versatility.

Because of its open system design, the **GAM 400** easily combines with a multitude of additional modules. As the **GAM 400** adapts to many applications, this multipurpose instrument perfectly meets the diverse requirements of gas analysis in research, process development and for special measuring tasks of laboratory and process analytics.



# GAM 400

## Computer-controlled modules

### Analyser units

5 mass ranges 1 - 16/128/340 and 1 - 300/512 amu  
special ion sources  
different types of ion detection

### Several gas inlet systems customised for user-specific application, e.g.

minimal sample gas consumption (< 30 µl/min)  
fast response / gas exchange (<300 ms)  
variable inlet pressure (1 - 1200 mbar)  
high sample gas temperature (up to 300°C)  
reactive and corrosive gas components  
trace analysis  
automatic batch sampling

Up to three gas inlets can be installed at the same time.

### Valve block units for automatic sample and calibration gas switching

### Application-specific modules for

vacuum system (purge and vent gas)  
LN<sub>2</sub> cooling  
heating  
software for system control and data exchange

### Adapter units for coupling with

elemental analyser  
thermo balance  
calorimeter and others

## Advantages

- Optimisation regarding the measuring task
- Flexibility for special problems
- Upgrades and exchange for system components
- Combination with other analytical techniques
- Improved price/performance ratio

## Application examples

- Quality control of special gas mixtures
- Measurement of He/D<sub>2</sub> mixtures
- Analysis of noble gas mixtures
- Measurement of reactive components in ppm and ppb range
- Measurement of VOC's
- Isotope analysis
- Investigation of reaction kinetics and yield for chemical processes
- Monitoring of ovens and vacuum dryers



**IPI** InProcess  
Instruments

InProcess Instruments  
Gesellschaft für  
Prozessanalytik mbH

Otto-Lilienthal-Str. 16  
28199 Bremen  
Germany  
Tel. +49 (0) 421 5259 3-0  
Fax. +49 (0) 421 5259 3-10  
mail@in-process.com  
www.in-process.com