



GAM 400

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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.



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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)
LN₂ 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/D₂ 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

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