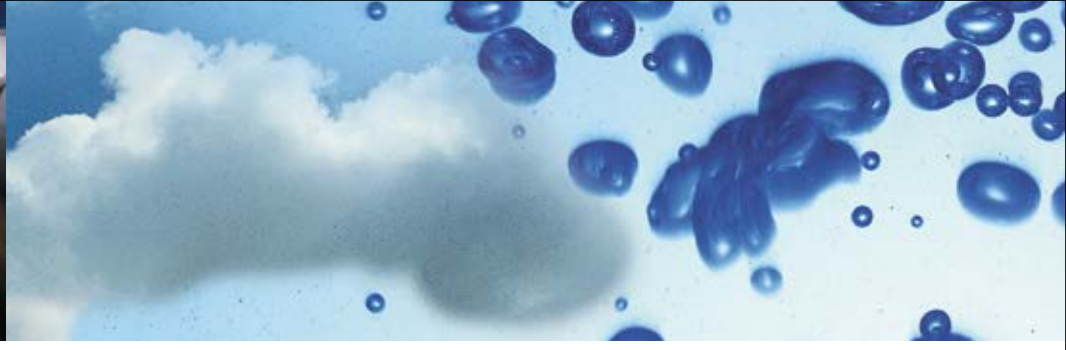
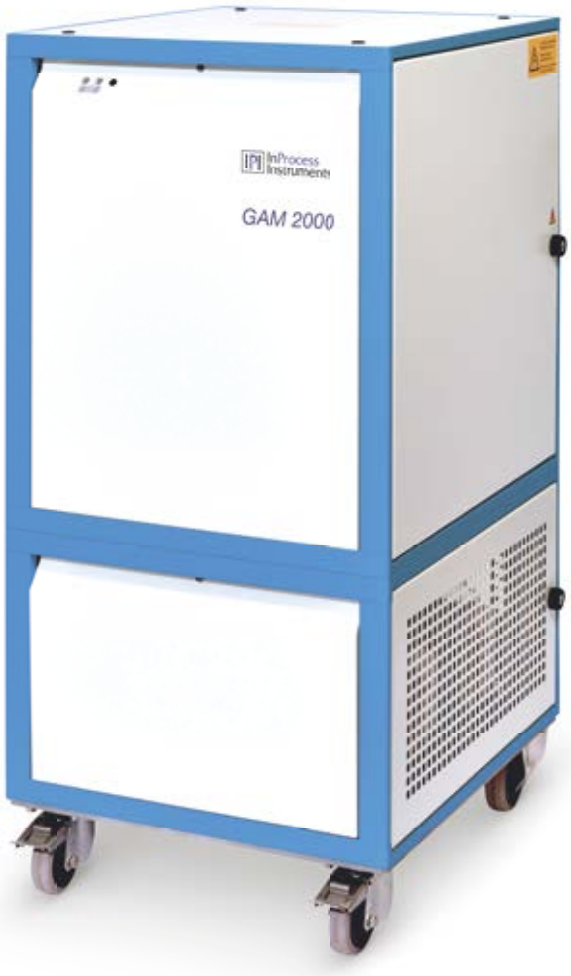


GAM 2000

GAM 2000

Multicomponent Online Gas Analyzer



GAM 2000
Quadrupole Mass Spectrometer for fast and precise multicomponent online gas analysis. Designed for use in industrial processes in chemistry and pharmacy, laboratory and engineering.

The *GAM 2000* is available as compact floor-mounted system, benchtop instrument or plug-in for industrial 19“ rack.

IPI InProcess Instruments

GAM 2000

Benefits

- All applications fully customized to the customer's analytical needs
- Smooth integration of our system into our customers' hardware and software
- Robust and air-cooled housing for industry and research
- High reliability and availability under demanding conditions
- Gas inlet for atmospheric and other pressure ranges
- Detection of small amounts of reaction products
- Many interfacing options for various separation and analytical techniques (e.g. TGA, GC, EA)
- Low cost of ownership (e.g. low consumption of calibration gases)

System

- Computer-controlled quadrupole mass spectrometer for fast and precise multicomponent online gas analysis
- Patented hyperbolic rod system with pre-filter and fully digitally controlled RF generator
- SEM detector with discrete dynodes and integrated Faraday
- WINDOWS® 7 (or higher) based IPI-QMS system and application software for automated calibrations and process gas measurements
- IPI Developers KIT for tailored application development with Microsoft.NET
- IPI TUNE UP for instrument tuning and mass spectra acquisition and visualization
- Measuring methods
  Qualitative: Mass spectra scan with raw data and bar graph functionality
  Quantitative: MID, MCD with matrix peak subtraction on interfered sample peaks
- Standard IO:
  8 DO, 8 DI, 4 AI (temperature, pressure), expandable up to 64 DO, 64 DI, 32 AI plus optional 32 AO

Technical Data

Mass Range:
1 – 200 amu

Scanning Speed:
4 ms / amu

Dynamic Range of Measurement:
100 ppb – 100 %

Interfaces:
Capillary gas inlet, optional with operating temperature up to 200 °C

Optional multiport gas inlet for 4 or 6 gas lines (process or calibration gases)

Ethernet to PC, others on request
PLC: PROFIBUS, PROFINET, OPC

Electrical Requirements:
Main voltage 115/230 V, 50/60 Hz, single-phase
Power consumption approx. 1 kW
others on request

Environment:
Temperature + 15 to 35 °C
Rel. humidity < 75 %

Dimensions / Weight (approx.):
500 x 550 x 1025 mm (w x d x h) / 110 kg

Specifications subject to change

IPI InProcess Instruments

InProcess Instruments
Gesellschaft für
Prozessanalytik mbH

Sophie-Germain-Str. 1
28201 Bremen
Germany
Tel. +49 (0) 421 52593-0
Fax. +49 (0) 421 52593-10
mail@in-process.com
www.in-process.com

DB_GAM2000-C/e, 06/2018