

QGA

Quantitative Gas Analyser

A compact bench-top gas analyser configured for real time, multi-species analysis with wide dynamic range – 100 PPB to 100%.



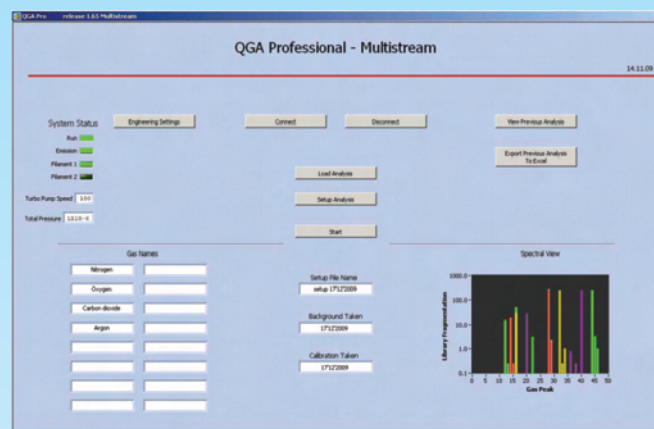
Features:

- Multiple Gas and Vapour Analysis – 200 amu mass range, 300 amu option.
- 2 metre continuous sampling heated capillary inlet.
- Gas sample flow rate 16 atm. cc/min standard. 1 atm. cc/min option.
- Gas sample pressure range: 100 mbar to 2 bar absolute. 1 mbar to 30 bar sampling options.
- High Sensitivity: detection to 100 PPB.
- <300 ms response time to changes in gas concentrations.
- Fast data acquisition: up to 500 measurements per second.
- Integrated CO analyser option for the analysis of low level CO in the presence of N₂ and CO₂.
- Soft ionisation for reduced spectral fragmentation and simplified data interpretation.
- Broad range of sampling accessories available.

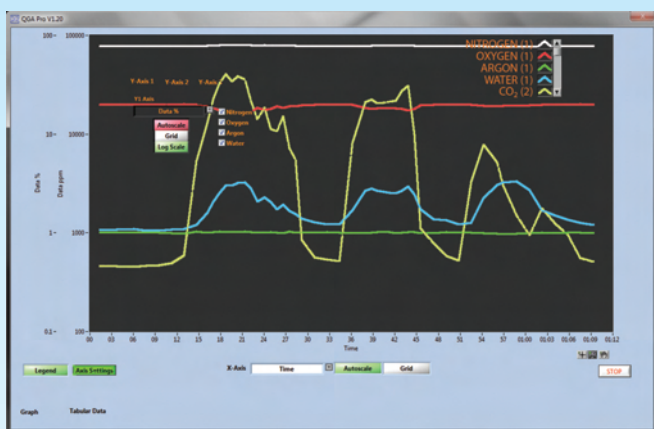
- Gas Reaction Studies
- Fuel Cell Reactions Studies
- Contamination Studies
- Fermentation Analysis
- Environmental Gas Analysis
- Thermal Analysis Mass Spectrometry
- Catalysis Studies / Reaction Kinetics

QGA and MASsoft PC Professional Edition Software

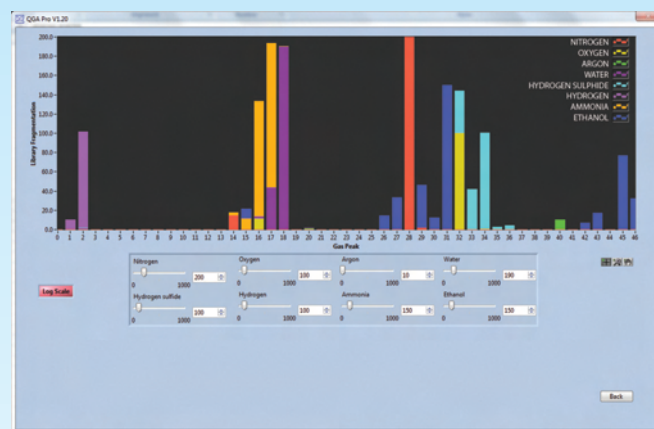
- Automated calibration routines for accurate quantitative analysis.
- Gas/Vapour mass spectral library with intelligent scan feature for precise fragmentation pattern recording.
- Automatic subtraction of spectral overlaps.
- Multi-stream inlet system options 4, 8, 16, 20, 40 or 80 way.



QGA – load and start an analysis with two clicks



QGA – trend analysis – user configurable data display



QGA – Synthesised spectral view to show unique peaks and spectral overlaps

Application specific high vacuum pump configuration

The QGA system is offered with an external foreline pump. Several pump types are offered to match gas sample requirements:
5 m³/hr scroll pump,
membrane pump or dual rotary oil sealed pumps.



Windows 7/Vista/XP compatible with Ethernet, USB and serial connections

Comprehensive I/O for data output and for reading data from external devices for integration and display with mass spectrometer data.

OPC – data output for process control.

System weight:

40 kg + 23 kg with external scroll pump option.

System dimensions:

491 mm wide x 566 mm deep x 318 mm high.

Power requirement:

110/220/240 V, 50/60 Hz 0.6 KVA + 0.3 KVA with external scroll pump option.

Manufactured in England by:



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It is Hiden Analytical's policy to continually improve product performance and therefore specifications are subject to change.

TECHNICAL DATA SHEET 182

