Mass spectrometers for vacuum, gas, plasma and surface science

NEW

HIDEN
ANALYTICAL

NEXT GENERATION
QGA 2.0

QGA 2.0

The latest advancement in gas analysis technology; this new system builds upon the solid foundation of our original QGA system, incorporating significant enhancements for improved performance and ease of use. The QGA 2.0 is lighter, more user-friendly, environmentally considerate, and packed with powerful features.

SUSTAINABILITY

- **Compact** - 42% Smaller Footprint
- **Lightweight** - 26% Lighter
- **Sustainable** - Eco-friendly Materials

ENHANCED PERFORMANCE

- **Optimised** - For Gas & Vapour Species
- **Speed** - Up to 1000 Measurements per Second
- **Intuitive** - QGA 2.0 Software Package

NEW FEATURES

- **Simplified** - 1-Button Start-up
- **Advanced** - New Electronics Package
- **Versatile** - Compatible with a Selection of Inlets

Applications

▸ Carbon Capture
▸ Hydrogen Analysis
▸ Environmental Monitoring
▸ Gas Production & Storage
▸ Fuel Cell Studies
▸ High Purity Gas Analysis
▸ Real-time Reaction Monitoring
▸ TA-MS
▸ Fermentation Off-gas Analysis
▸ Process Characterisation

Technical Data

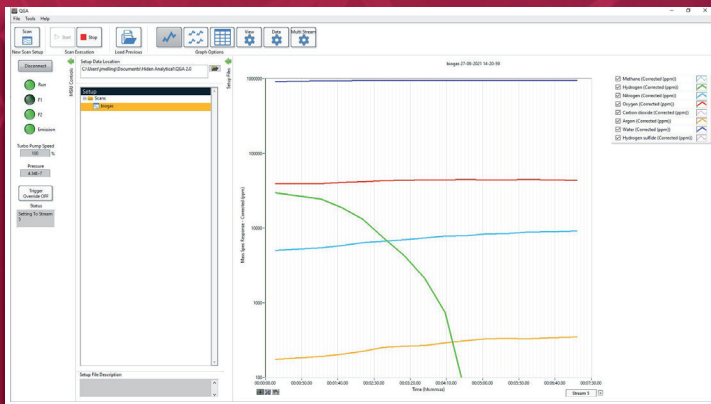|	
Mass ranges:	1-200 / 1-300 amu
Sensitivity:	100% to 100 ppb subject to spectral interference
Speed:	Up to 1000 measurements/second
Response time:	300 ms
Software:	QGA 2 & MASsoft Professional
	Windows compatible
Dimensions:	580mm x 345mm x 419mm
Weight:	29.5kg – 33.5kg, depending on configuration
Interface:	Ethernet/USB/serial (RS-232) connections
Gas consumption rate:	16/8/3.2/0.8 sccm (user configurable)
Capillary operting temperature:	Up to 200°C standard/300°C/350°C/400°C/450°C options
Detector:	Dual Faraday/Channeltron Electron Multiplier

Software Package

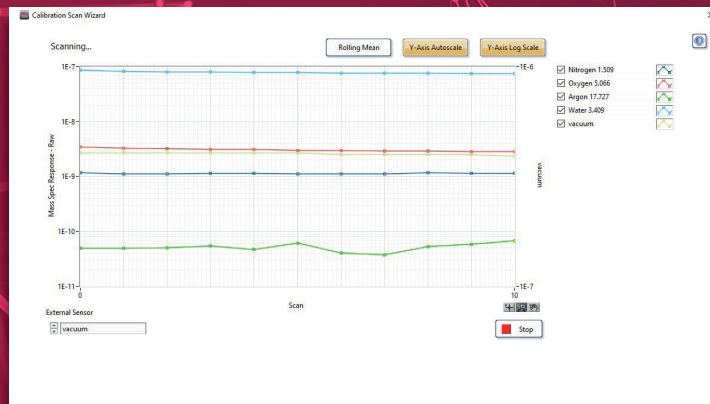**QGA 2 Gas Analysis Calibration & Quantification PC Software**

For quantitative gas and vapour analysis providing real-time continuous analysis of up to 32 species with concentrations measured in the range 0.1 ppm to 100%.

Key Software Features

- Automatic calibration with background correction
- Automatic subtraction of spectral overlaps
- Quantitative analysis of up to 32 gases
- 10 peak spectral library with intelligent library scan feature
- Automatic triggering of analysis from an external input
- X-axis can display time or an external input, e.g. temperature

QGA 2 Software Homescreen

QGA 2 Software Calibration