HIDEN ANALYTICAL

HAL/3F PIC

Quadrupole Mass Spectrometer

developed for scientific research

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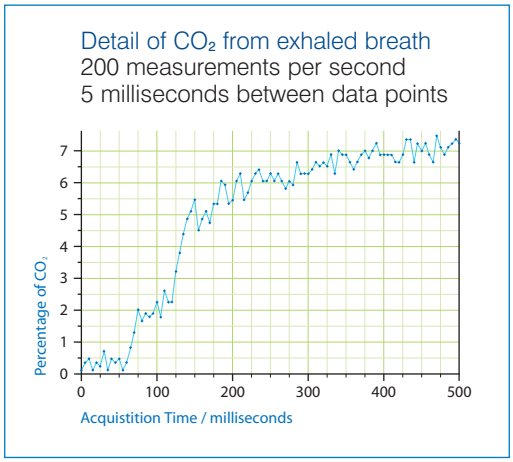
Quadrupole Mass Spectrometer

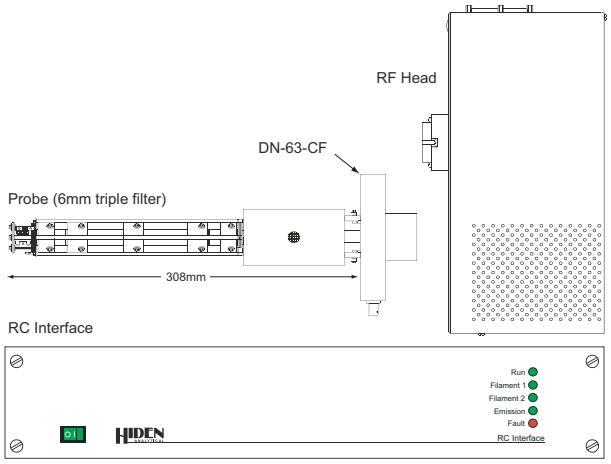
The quadrupole analyser is a precision assembled triple mass filter with unique, independently driven RF only secondary filter stages preceding and following the primary mass filter. A UHV low profile electron impact ioniser with twin oxide coated iridium filaments and a pulse ion counting single channel electron multiplier detector are included as standard. Mass range options are 50, 300 and 510 amu

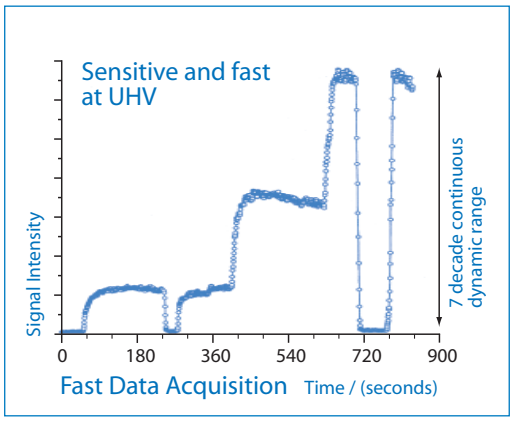
HAL/3F PIC systems are directly controlled from a PC compatible computer via RS232 or Ethernet link.

Features:

- Low profile ion source. Desorbing surfaces may be positioned to within 8mm of the ion source.
- Fast data acquisition.
- Ion source control for soft ionisation.
- Gating input for pulsed gas studies with down to 100 nsec gating resolution.
- Wide dynamic range. 7 decade continuous log scale.
- Automatic mass scale alignment.
- Data export facility to ASCII format and to all Windows™ devices for printing/plotting.







Specification:

Typical applications: Fast event UHV gas studies.
Particles detected: Neutrals and radicals.
Detector type: Pulse ion counting SCEM
Min. detectable partial pressure: 5 x 10^{-15} mbar.
Max. operating pressure: 5 x 10^{-6} mbar.
Filament materials: Oxide coated iridium as standard.
Filament degas: Single or simultaneous twin filament degas.
Mounting flange: Conflat type DN-63-CF, 4.5"/114mm.

Optional features:

Thermocouple temperature interface module and temperature integration software.

Manufactured in England by:

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