HIDEN ANALYTICAL

Residual Gas Analysers

PROVIDING AN ANALYSIS WINDOW INTO YOUR VACUUM CHAMBER

### New iRGA - A quick start vacuum monitor for your vacuum system

Intuitive RGA program for simple monitoring of the partial pressures of residual gases and vapours in your vacuum chamber. Hiden Analytical extends its range of application specific software 'apps' to now include the new intuitive RGA application software.

Suitable for vacuum fingerprint analysis, leak detection and trend analysis.

HMT 100 - High pressure RGA for vacuum process analysis

Monitor your vacuum process, optical coating for example without the requirement of differential pumping.

The Hiden HMT includes dual mode operation, for measurement at process to 5×10^{-3} mbar and a high vacuum mode for detection to 5×10^{-13} mbar.
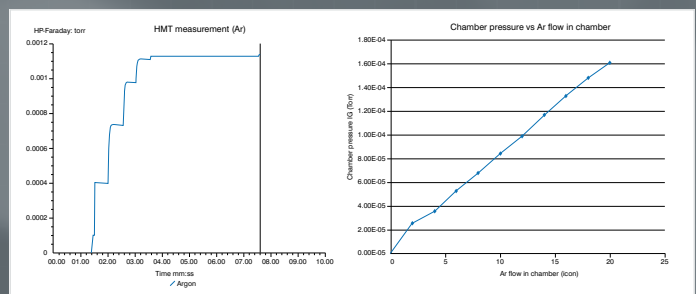
HMT analyser measuring Argon in the process chamber at pressure up to > 10^{-3} Torr.

Triple Filter Quadrupole Mass Spectrometers for high performance measurement

For specialist applications in advanced research, Hiden quadrupole systems are able to analyse hydrogen isotopes at low mass, through to cluster analysis at high mass, up to 5000 amu mass range.

Hiden Analytical manufacture quadrupole mass spectrometers with 6, 9 and 20 mm pole diameter.

The quadrupole systems are optimised for the specific application mass range requirements to give power and performance. Hiden offers an extensive range of instruments with mass range options:
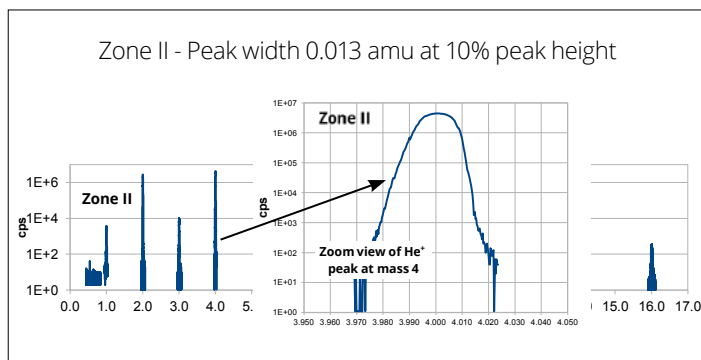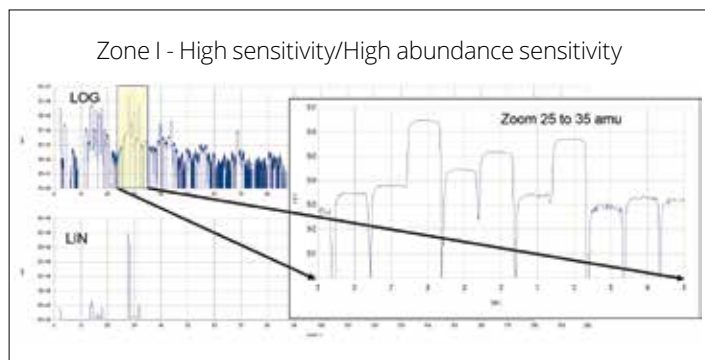
▸ 20 amu	▸ 200 amu	▸ 1000 amu
▸ 50 amu	▸ 300 amu	▸ 2500 amu
▸ 100 amu	▸ 510 amu	▸ 5000 amu

New DLS-20 – 20 mm pole diameter Quadrupole Mass Spectrometer

The new DLS-20 system includes the world first quadrupole mass spectrometer with *user switchable dual zone operation.*

- ▸ **Zone I – for high performance over 200 amu mass range**
- ▸ **Zone 2 – for ultimate resolution at low mass, with mass range to 20 amu**

Zone I - High sensitivity/High abundance sensitivity

Zoom 25 to 35 amu

Zone II - Peak width 0.013 amu at 10% peak height

Zoom view of He+ peak at mass 4

New HAL 1000 series – 9 mm pole diameter Quadrupole Mass Spectrometer extended to 5000 amu

Scan of Caesium Iodide Clusters 0 - 5,000 amu (6 amu FWHM peak width)