



instruments for advanced science



## Gas Composition in Vacua

Hidden Analytical offer an extensive range of quadrupole residual gas analyzers for diverse vacuum applications through the pressure range from millibar through to extreme high vacuum(XHV). The catalog items are supplemented by a custom-engineering design service for experiment-specific requirements including in-vacuum cooling and heating, probe insertion distance and remote in-vacuum mounting.

Typical mass ranges of 1:50amu to 1:300amu accommodate most gaseous and vapor species, with alternative mass ranges to 1000amu offered for specialized applications. Analogue and pulse ion counting detectors are selectable to optimize performance for widest dynamic range of 10 decades, fastest measurement rate to 500 samples per second and highest sensitivity to  $5 \times 10^{-16}$  millibar. Ion source options are configured for general analysis, for molecular beam applications or for minimal degas rates for UHV/XHV applications.

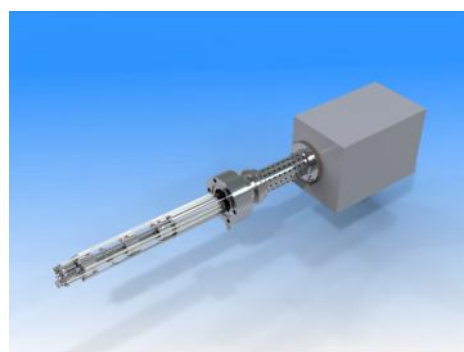
The single-stage mass filters are used for many general applications, with the 3F-series triple-stage mass filter being used for the most demanding applications requiring maximum performance in terms of both mass resolution and abundance sensitivity.

All operating parameters are software integrated giving full control of mass resolution, ionization current and ionization energies, with the soft ionization feature being used for simplification of complex molecular fragmentation spectra.

For further information on this or other Hiden Analytical products contact Hiden Analytical Inc. at [info@hideninc.com](mailto:info@hideninc.com) or visit the main website at [www.HidenInc.com](http://www.HidenInc.com)



*HAL 201 200 amu RGA*



*HAL 201 RGA  
with Thermal Extender Option*



*HALO 201 RGA for MBE Process*