



instruments for advanced science



Quadrupole Mass Spectrometers for UHVXHV Studies

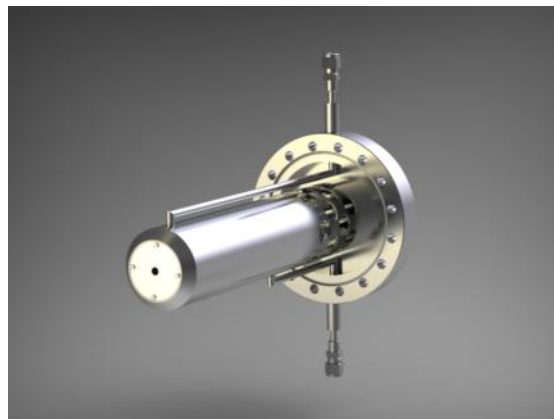
Hidden Analytical introduce a family of quadrupole mass spectrometers designed specifically for UHV/XHV performance, evolved from the Hidden 3F-series concept and incorporating the proven triple-stage mass filter technology for optimum mass separation, ion transmission efficiency and contamination resistance.

Pulse ion counting detection is common throughout this series for highest sensitivity and fastest response times, with choice of positive-ion-only or combined positive and negative ion detection. Quadrupole mean energy scanning is featured for systems configured for analysis of externally generated ions, enabling ion energy distribution measurement and optimization for neutrals analysis.

All systems feature the Windows-MASsoft Pro multi-mode control program with multi-parameter scanning for optimization of operating parameters for each individual mass channel. Ion detection is by fast pulse counting with continuous 7-decade scaling from 1c/s to $10E+7c/s$. Sampling rates exceed 500 measurements per second, with partial pressure detection down to $5 \times 10E-15$ mbar and trace level detection to 5ppb.

A choice of ionization sources enables system optimization for varied applications including molecular beam, laser ablation, thermal desorption and general neutrals studies. All ion source parameters are software controlled with modes for electron attachment, 'soft' ionization and appearance potential measurement.

For further information on this or other Hidden Analytical products contact Hidden Analytical Inc. at info@hiddeninc.com or visit the main website at www.HiddenInc.com



Hidden 3F/PIC with cryo-shield