

New Product Information

Release: HAPR0053

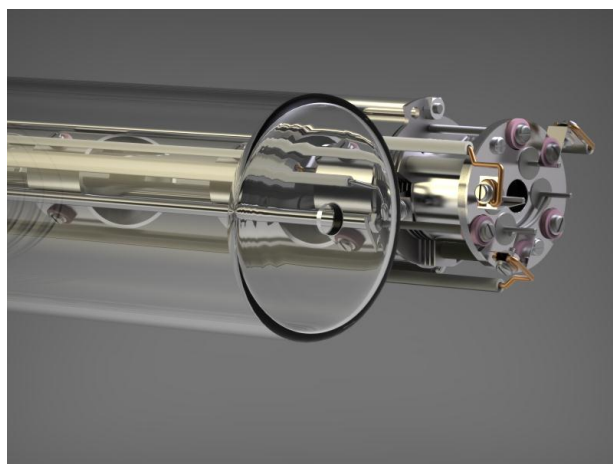
Release date: immediate

The Hiden 3FD Fast-response Mass Spectrometer

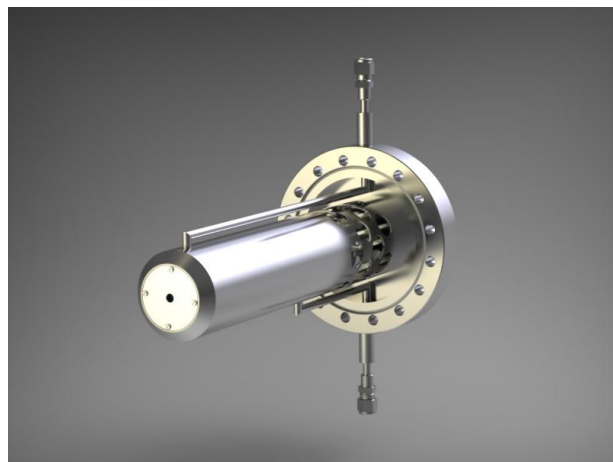
The 3F-series of quadrupole mass spectrometers from Hiden Analytical now feature direct digital signal detection for our fastest response and most sensitive detection levels, addressing the needs of the researcher operating in the UHV/XHV vacuum regime through to specialised fast-event gaseous studies at pressures to atmosphere and beyond.

The system integrates triple-stage mass filter technology with digital data acquisition by direct positive ion counting (pulse counting) to combine a continuous detection range of seven full decades with a detection rate from just 1 ion per second and abundance sensitivity measurements to the parts per billion regime. The integral data accumulation mode enables operation with time-functioned data acquisition for suppression of fundamental ion statistical noise. Vacuum partial pressures to 5×10^{-15} mbar are detectable.

Ionisation source options are available for conventional residual gas analysis, for surface desorption studies and for molecular/laser beam measurements. Single-stage and multiple-stage pressure reduction systems are available for operation at higher pressures beyond the UHV range. Requirements for measurement of externally generated positive ions and for measurement of both positive and negative ions are addressed by the alternative EP/EQ series. A custom design service is available for specialised applications.



UHV probe with quartz shroud (removed)



UHV probe with LN2-cooled shroud

For further information on all Hiden Analytical products contact Hiden Analytical at info@hiden.co.uk or visit the main website at www.HidenAnalytical.com.

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