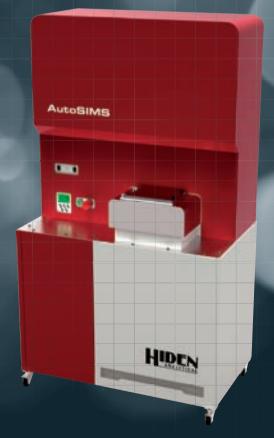


Fuel Cell STUDIES

QIC Series gas analysers with real time gas/vapour analysis for reaction studies



Membrane Inlet Mass Spectrometer (MIMS) / (DEMS)

SIMS surface analysis for characterisation of active surfaces

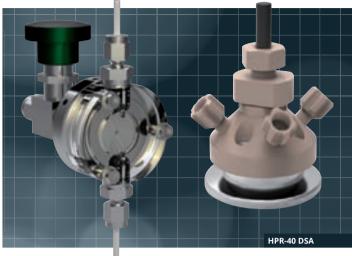
UHV TPD Workstation system for studying adsorption/desorption mechanisms





QIC Series gas analysers with real time gas/vapour analysis for reaction studies

- Analysis of reaction mixtures and product composition
- Detection of impurities in gas supply streams
- Detection range from PPB to 100%
- Mass range of 200 amu for detection of gases such as H_2 , CH_4 , NH_3 , H_2O , CO, CO_2 and Sulphur containing compounds
- Simple User Interface



Membrane Inlet Mass Spectrometer (MIMS)/(DEMS)

- Electrochemistry/catalysis studies with the integrated cells for differential electrochemistry mass spectrometry (DEMS)
- ▶ Vitreous carbon electrode for catalyst coating
- Nanoporous membrane interface to the MS for fast response
- In situ determination of gaseous and volatile electrochemical reactants, reaction intermediates and products in real time



SIMS surface analysis for characterisation of active surfaces

- > SIMS Workstation for surface composition analysis
- High sensitivity sub ppb detection of trace components



UHV TPD Workstation system for studying adsorption/desorption mechanisms

- ▶ Low background/High signal for optimum detection of desorption species
- ▶ 1000°C Sample stage with zero outgassing sample holder