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

www.HidenAnalytical.com  info@hiden.co.uk
Mass spectrometers for vacuum, gas, plasma and surface science

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%

Membrane Inlet Mass Spectrometer (MIMS)/(DEMS)
- Mass range of 200 amu for detection of gases such as H₂, CH₄, NH₃, H₂O, CO, CO₂ and Sulphur containing compounds
- Simple User Interface
- Electrochemistry/catalysis studies with the integrated cells for differential electrochemical 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

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