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
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%
- Mass range of 200 amu for detection of gases such as H₂, CH₄, NH₃, H₂O, CO, CO₂ and Sulphur containing compounds
- Simple User Interface

**Membrane Inlet Mass Spectrometer (MIMS)/(DEMS)**
- Electrochemistry/catalysis studies with the integrated cells for differential electrochemical mass spectrometry (DEMS)
- 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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