

## New Literature Information

# New Hiden CATLAB Microreactor/MS Brochure

The new brochure details the Hiden CATLAB-PCS combined microreactor and mass spectrometer system, purpose designed for the characterisation and evaluation of catalysts together with general thermal studies including temperature programmed desorption and reaction testing. The modular benchtop system features an advanced fast-response low thermal mass 1000°C furnace together with multi-stream gas flow control of up to eight integrated gas streams, and a precision Hiden quadrupole mass spectrometer with quartz inert sampling line close-coupled directly to the reactor for minimised dead volume and sample memory.



CATLAB Brochure Spread

Sample is inserted via the novel CCS Catalyst Cartridge System to ensure consistent and reproducible sample loading, an in-bed thermocouple providing precise measurement of sample temperature and reaction exotherms. The system control is from a single integrated program giving control of all operating parameters and of data acquisition and presentation. Featuring a fully programmable automated analysis cycle, all system elements are designed and configured to ensure optimum data authenticity.

Pulse Chemisorption(PCS) operation utilises the integral multiport rotary valve with quantified volume sample loop to admit discreet aliquots of single component or user-defined multiple component adsorbate gas to the sample to provide accurate adsorbate uptake measurement. Properties including adsorption isotherms, metal dispersion and surface acidity are readily determined, with the mass spectrometer providing continuous, simultaneous multicomponent product measurement.

The catalogue is available to [download](#) or you can request your [free print copy](#) via our website. For further information on all Hiden Analytical products contact Hiden Analytical at [info@hidden.co.uk](mailto:info@hidden.co.uk) or visit the main website: [www.HiddenAnalytical.com](http://www.HiddenAnalytical.com).

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