HIDEN ANALYTICAL

instruments for advanced science

30 Years

Catalyst quantification with CATLAB

Specifically developed for quantification of catalytic activity in both R&D and QC laboratories, the Hiden CATLAB integrated micro-reactor/mass spectrometer (MS) system now features new LABview-based control.

The new software is fully user-definable to establish MS data acquisition parameters, input gas/vapour flow through up to 8 mass flow controllers (MFC's), furnace temperature and ramp rates, and valve switching functions including pulse gas injection for chemi-sorption measurement. The temperature profile defines the trigger-points to change gas composition, to inject gas pulses and to stop/start data acquisition. Additionally MS analysis files can be selected and matched to specific sections of the experiment to ensure optimum data at each stage.

The CATLAB system is engineered for combined reactor/MS system operation yet is easily decoupled to enable operation of the mass spectrometer as a standalone laboratory and process gas analyzer. Reaction products are monitored directly from the sample position via the primary sampling interface embedded within the 1000C fast-response furnace, a secondary interface then providing a decoupling point for off-line MS operation.

For further information on this or other Hiden Analytical products contact Hiden Analytical Inc. at info@hideninc.com or visit the main website at www.HidenInc.com