Gas-Vapor Monitor for Biofuel Research

Hiden Analytical introduces a new cuvette-style interface for the Hiden HPR-40 membrane inlet mass spectrometer (MIMS) series. Specifically engineered for the researcher investigating gaseous species generated by algal photo-responsive reactions, the cuvette is engineered to be both flexible and user maintainable. It features inert materials throughout.

Concentric transparent acrylic cylinders, sealed by a removable base and cap, form an inner reactor zone with an outer sleeve, the latter to enable thermally stable water to be re-circulated to maintain a uniform reactor temperature. A magnetically-driven impeller, located close to the integrated membrane surface, maintains overall media consistency.

Two alternative sets of acrylic sleeves are supplied for user-selection of the reactor capacity. Standard reactor volumes are 25cc and 50 cc, and two dark shields are included to enable measurement with illumination excluded. Two membrane holders are also supplied to provide a 4-fold difference in membrane surface area, the larger area being preferred for enhanced transmission of organic vapors and the smaller for dissolved gas measurement. Connectors are included for water connectivity and thermocouple insertion.

The Hiden HPR-40 MIMS systems are available with alternative process interfaces including media insertion probes, membrane carriers for re-circulating media, stream-switching modules for automatic cycling through multiple process vessels (up to 80 streams), fermentation top-gas measurement.

Source: Hiden Analytical [1]

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[1] http://www.hidenanalytical.com