

XEMIS - STATE-OF-THE-ART IN ADVANCING SORPTION ANALYSIS

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ABSTRACT: CO₂ capture, MOF's, hydrogen storage, porous materials, mem-branes applications. The XEMIS microbalance incorporates Hidden Isochema's unique exosensing technology, which allows gravimetric sorption analysis at high temperatures and high pressures, under a combination of conditions previously unachievable with commercial sorption microbalance instrumentation. Exosensing technology, which removes sensitive components from the microbalance chamber and allows operation with corrosive and flammable species. Symmetric geometry, precision engineered microbalance. Minimized total internal volume. Large capacity microbalance (5 g) with resolution of 0.2 µg and long-term stability of ± 5 µg. Wide dynamic weighing range (0-200 mg). High pressure operation to 200 bar. Single reactor vessel for all thermostat options, from 77 K to 773 K. No re-zeroing or in-situ recalibration required. Uses the unique IGA Method for endpoint prediction. All-metal construction with high quality VCR fittings. Modular design, compatible with all accessories and fully upgradable.

KEYWORDS: XEMIS, sorption analysis