

RGAPro

for the **PCTPro-2000**
Sorption Gas Analyzer



The RGAPro is a residual gas analyzer designed to work with the PCTPro-2000 or any other sorption instrument or gas handling system for real-time compositional analysis of sorption gas from the sample chamber. The system uses a 100 amu quadrupole mass spectrometer with better than 1 amu resolution. Sophisticated software control of scan and data acquisition allows for various scan modes and includes automatic profile identification based on stored profiles from a standard reference library. The system includes a hybrid turbomolecular drag pump and a proprietary gas dosing manifold that allows gas sampling over the entire vacuum to 200 bar operating pressure range of the PCTPro-2000.

Example scans below show the evolution of ammonia from a multi-phase nitrogen-containing sample during a temperature programmed desorption experiment as the sample temperature is raised from ambient to 250 °C. Scan a: temperature approximately ambient temperature, Scan b: sample temperature approximately 250 °C.

