RGA Specifications and Analytical Figures of Merit – Implications for UHV and XHV Applications. Kenneth Wright, INFICON Inc, East Syracuse NY.

Specifications commonly used to describe RGA performance will be discussed. Minimum detectable partial pressure (MDPP), resolution, sensitive, linearity, zero blast, abundance sensitivity, measurement speed and peak stability will be defined while highlighting the analytical figures of merit that are most relevant for UHV and XHV applications. Quadrupole theory will be used to explain critical instrument design features that enable the production of high performing RGA's. Most of the material presented will focus on linear quadrupole mass filters but other RGA technologies will also be referenced.