

Gasmeter™ in process monitoring – applications:

Semiconductor Manufacturing

Semiconductor Manufacturing Measurements

The process:

Various PFC (Poly Fluorinated Carbon) compounds are used in semiconductor fiber manufacturing processes. The exhaust gases are typically scrubbed before they are directed into outlet vent.

Measurement need:

- Emissions measurements.
- Scrubber efficiency tests.

Gasmeter Dx-4000:

Portable Analyzer for short-term measurements



Gasmeter FCX:

Stationary System for continuous on-line measurements



Typical measured compounds:

Poly fluorinated carbons:

CF₄, CHF₃, C₂F₆

Sulphuric compounds

SF₆

Others

SiF₄, NH₃

Application example:

Measurements from oxide etching process of wafers. Short response time of **Gasmeter™** is necessary to see the fast changing concentrations in different phases of cyclic process.

