

The Siemens logo is displayed in a bold, teal, sans-serif font.

*Ingenuity for life*

Analyzers and System Solutions

## Optimized Combustion Process utilizing perfect gas quality

Steel • Glass • Annealing • Power Generation

[usa.siemens.com/processanalytics](https://usa.siemens.com/processanalytics)

### Do you have a combustion process utilizing natural gas?

Are you aware there is a solution which

- Ensures product quality
- Lowers operating cost
- Lowers emission through better combustion control?

### Quality up, Operating cost down!

The solution is to control the combustion perfectly. The basis to be able to do that is to know all relevant components of the fuel gas.

Siemens enables you to determine the gas composition and ensures optimum combustion utilizing the proven and compact MAXUM with modular oven.

Benefit from many years of Siemens experience, combined with the worldwide established service and support network.

Increasing availability of renewable energy has changed natural gas composition. Power-to-Gas and biogas plants can contribute additional components such as Hydrogen, Propane and Butane to the natural gas supply and consequently change the gas energy content.

An optimized heat content could provide enormous benefits to improve manufacturing processes. Especially the glass industry segment, where heat value has a decisive impact on product quality, can benefit from knowing the optimum gas composition.

Energy efficiency. Minimizing emission and product quality therefore can be influenced directly.



### MAXUM with Modular Oven

- Simplified maintenance due to plug and play modules
- Fast measurement through Parallel Chromatography
- High availability ensured by utilizing established techniques based on many years of experience
- Highly efficient analytic enables the determination of even minute concentrations of the gas
- High flexibility due to wide application varieties
- User friendly interface software
- Flexible communication based on industry standards with Modbus or OPC
- Turn-key solution including sample system, cabinets for in- or outdoor installations
- Remote and on-line technical support

Components	Typical Measuring Range*	Unit
Methane	50 - 100	Mol%
Oxygen	0 - 3	Mol%
Nitrogen	0 - 25	Mol%
CO <sub>2</sub>	0 - 20	Mol%
Ethane	0 - 20	Mol%
Propane	0 - 15	Mol%
i-Butane	0 - 10	Mol%
n-Butane	0 - 10	Mol%
neo-Pentane	0 - 1	Mol%
i-Pentane	0 - 1	Mol%
N-Pentane	0 - 1	Mol%
Hexane+	0 - 3	Mol%
Hydrogen	0 - 25	Mol%
Gross Calorific Value		BTU/scf*
Net Calorific Value		BTU/scf*
Wobbe Index		BTU/scf*
Compressibility		1/PA

\*adjustable

Siemens Applications Flyer  
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