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New modules for Siprocess GA700 enable comprehensive analytical solutions

- **"Ultramat 7" and "Calomat 7" modules expand the analytical spectrum of Siprocess GA700**
- **Simple module installation and replacement using "Plug and Measure" principle**
- **Parameter assignment and diagnostics using Simatic PDM (Process Device Manager)**
- **Main field of application is process monitoring in chemical, petrochemical and incineration plants**

With "Ultramat 7" and "Calomat 7", Siemens is offering two new analyzer modules for its Siprocess GA700 gas analysis system. Together with the "Oxymat 7" module which is already available, users can thus configure flexible analytical solutions, for example for measuring oxygen, hydrogen, noble gases or infrared-active components such as carbon monoxide and carbon dioxide. The modular design of the Siprocess GA700 enables fast module installation and replacement using the "Plug and Measure" principle. Depending on the configuration, the units can be used at temperatures up to 50 °C. They are particularly suitable for process control and optimization in incineration plants and for quality control and process monitoring in chemical and petrochemical plants.

With the launch of the Siprocess GA700 in 2012, Siemens introduced a new device concept for the extractive gas analysis. The device comprises a base unit (enclosure including operator interfaces and customer interfaces) into which one or two modules can be integrated. The modules, as the actual analyzer unit, provide the sensor-based electronics including evaluation software, as well as the process connections. The influence of interfering gases can then be measured and mutually

offset. The modular design provides greater flexibility with regard to upgrading or retrofitting since modules are automatically recognized and configured. This approach also simplifies maintenance and repair measures.

In addition to the already available Oxymat 7 module for oxygen measurements, users can now use the Calomat 7 to carry out quantitative determinations of hydrogen and noble gases in binary or quasi-binary gas mixtures. Depending on the parameter settings, the measuring ranges for H₂ are 0 to 0.5%, 0 to 100% or 95 to 100%. The module can therefore be used equally well both for pure gas monitoring and protective gas monitoring or for determining H₂ in blast furnace or converter gases.

The Ultramat 7 module carries out highly selective measurements of up to two infrared-active components such as carbon monoxide and dioxide. The unit can be integrated, for example, in measuring equipment for boiler control in incineration plants. Furthermore, the module can be used to measure the concentrations of process gases in chemical plants.

Users can configure, parameterize and start up the Siprocess GA700 using the Simatic PDM (Process Device Manager). In addition, the software tool provides functions for diagnostics and maintenance of the gas analyzer.



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You will find this press release and a press photo at

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