

TAKING CONTINUOUS GAS ANALYSIS TO A NEW LEVEL

Why SIPROCESS GA 700? Because it's time to move.

siemens.com/process-analytics



INDUSTRIES

Precise measurement technology. For strict requirements.

Process analytics technology is all about precision. Exact knowledge about gas composition makes manufacturing and processing procedures more transparent, efficient, and safe. This applies to many industries, from chemistry, biotechnology, and pharmaceuticals to food and beverage production, cement works, and water and wastewater management.

No matter how much they differ, all these industries share a common goal: to increase the efficiency and availability of production in order to maximize yield when obtaining the final product. At the same time, process owners have to meet strict quality requirements and standards, as well as environmental guidelines. And above all, the safety of personnel is the top priority when dealing with chemical processes.

MY GOALS EXACTLY. WHAT DOES SIEMENS OFFER ME IN THE AREA OF PROCESS ANALYTICS? **I** Industries

HIGHLIGHTS

New features. Always one step ahead.

The modular SIPROCESS GA 700 platform supports reliable and precise process analytics technology, can be flexibly configured. And, with its new features, it is one step ahead of the market. The new features and proven modular concept make SIPROCESS GA 700 a unique, end-to-end platform.



NOW I'M CURIOUS. WHAT'S NEW?

l Highlights

HIGHLIGHTS

No ifs, ands, or buts. **Only good arguments.**

Robust:



All modules are also suitable for corrosive and flammable sample gases thanks to the material selected for the sample chambers and pipes, as well as the Kalrez seals.



Precise:

Special cleaning processes permit precise measured values without contamination.



Durable:

Thanks to integrated vibration compensation, OXYMAT 7 also delivers precise results in environments with strong vibrations.

Versatile:

Gas paths that can be heated and specific configuration options permit a wide range of measured components, including components with a high water content.

Safe:



The platform is designed according to NAMUR guidelines and is also approved for hazardous zones 1 and 2 thanks to its state-of-the-art Ex concept.

Reliable:

A lack of contact between the measuring sensor and sample gas and the use of corrosion-resistant materials extend the device's life cycle.

l Highlights

MODULAR PLATFORM

More than just a device. **More of a flexible platform.**

The modular SIPROCESS GA 700 gas analyzer has three housing types and three flexibly usable and interchangeable modules. What this means is that you can easily combine two of the three modules – OXYMAT 7, ULTRAMAT 7, and CALOMAT 7 – in a rack-mounted or wall-mounted housing using the Plug & Measure principle. Because the measured data and settings are stored on the modules and on the base unit, the device is simple to replace without any loss of data thanks to the Set & Forget concept. The base unit copies the data directly to the new module.

Modular Platform

SOUNDS PRACTICAL. TELL ME MORE. **BASE UNITS**

One platform. Many combinations.





GA 700 BASE UNIT

Accommodates up to two modules. Choice of wall-mounted or 19" rack-mounted housing with three height units, depending on requirements.

EX D FIELD DEVICE

The newest housing type in the GA 700 series. A pressure-resistant enclosed housing and a field operating device comprising an Ex d casing with an attached Ex e connection housing plus a connected Ex d field module. l Base units

Selective and robust.

The specialist for complex gas mixtures and gases with absorption bands in the infrared wavelength range.

Application area: Boiler control in incineration plants, process gas measurements in chemical plants, and more.

HIGHLIGHTS

- Standard module with high CO selectivity
- Hastelloy C22 stainless-steel pipes, tantalum sample chambers, Kalrez seals
- High-temperature version available
- Preventive maintenance options for infrared light source
- Cleaning option for internal gas paths
- Integrated interference gas correction feature
- Low maintenance costs thanks to on-site cleaning of the analysis chambers
- Deployable in ambient temperatures up to 45°C



I ULTRAMAT 7

Durable and precise.

The specialist for oxygen measurements.

Application areas: Boiler control in incineration plants, quality assurance and purity monitoring, emissions monitoring, ethylene oxide recovery, safety-related oxygen measurement including in explosion-proof areas, and more.

HIGHLIGHTS

- Standard module with high-temperature gas paths up to 130°C
- Hastelloy C22 stainless-steel pipes and sample chambers, Kalrez seals
- Vibration compensation in environments with strong vibrations
- Physically suppressed zero point
- Specially cleaned gas path
- T90 time 1.9 seconds
- Deployable in ambient temperatures up to 50°C
- Measuring range up to 0.5 percent



I OXYMAT 7

Versatile and efficient.

The specialist for measuring binary gases like hydrogen and helium and for custom applications involving special gas mixtures.

Application areas: Safety monitoring, inert-gas monitoring, hydro-argon gas monitoring, and more.

HIGHLIGHTS

- High measuring range dynamics
- Specially cleaned gas path
- Integrated interference gas correction
- Low detection limits in measuring range from 0 to 0.5%
- T90 time < 2.5 seconds
- Versatile uses, including for special gas mixtures
- Customized configuration of special applications
- Selection of predefined gas mixtures
- Deployable in ambient temperatures up to 50°C





UNIFORM OPERATING CONCEPT

As precise as ever. **Simpler than ever.**

Commissioning the GA 700 modules is easy thanks to the Plug & Measure principle: just insert the modules, connect the cables, switch on, and measure. As soon as the modules are installed, their basic settings are automatically configured. Even replacing a module is simple and without any loss of data, because the measured data is stored on both the base unit and the modules and copied between them.

The software is multilingual, making it ideal for worldwide use. Modules can be installed in a rack-mounted or wall-mounted housing at ambient temperatures up to 50°C and, in the case of the Ex d field device, up to 60°C.

WANT TO LEARN MORE?

Uniform operating concept

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