

# GMA200 MGSS

Monitor up to 3 gases at up to 6 measuring points using a gas sampling system the size of a 30 cm pizza!



Gas sampling systems are notoriously bulky, heavy and expensive. They are not even real products, but rather standard components added an additional pump, mounted in a steel cabinet. It was time to rethink the concept and come up with an easy to mount, easy to maintain, safe and reliable solution for most applications – the GMA200-MGSS.

The modular concept allows to be customized to perfectly meet your requirements. Whether you need a simple single gas solution or a full-fledged sequential sample system for monitoring 3 different gases from 6 sample points, the MGSS is the best option to monitor gases in hot, humid, cold or dusty environments.

The IP54 housing, which is protected against dust and splash water, has integrated acoustic and visual alarms. The sensor block can accommodate a maximum of 3 sensors, of which 2 are electrochemical and/or infrared sensors and one is a catalytic combustion sensor. To ensure precise monitoring as well as a long service life of the sensors, a water barrier, a condensate separator and suitable cooling coils are available as accessories. Equipped with a flame arrester, the measuring point can even be located in an Ex zone.

Dear Readers,

Philip Rosenthal once said, „If you stop getting better, you’ve stopped being good.“ He’s right. That is why we invest 13 % of our turnover each year in research and development of new sensors, technologies and devices.

The result? For example, the GMA200 MGSS.

Yours Sincerely,  
*Hans-Jörg Hübner*  
Hans-Jörg Hübner, CEO GfG



### GMA200 MGSS: Available sensor units

The following sensor units are currently available:

Gas	Measuring Range	Measuring Principle*
CH <sub>4</sub> (methane)	0 to 100 % LEL	CC
HC (hydrocarbons)	0 to 100 % LEL	CC
O <sub>2</sub> (oxygen)	0 to 25 vol%	EC
CO (carbon monoxide)	0 to 500 ppm	EC
H <sub>2</sub> S (hydrogen sulfide)	0 to 100 ppm	EC
NH <sub>3</sub> (ammonia)	0 to 500 ppm	EC
SO <sub>2</sub> (sulfur dioxide)	0 to 20 ppm	EC
CO <sub>2</sub> (carbon dioxide)	0 to 5 vol%	IR
CH <sub>4</sub> (methane)	0 to 100 % LEL	IR
C <sub>3</sub> H <sub>8</sub> (propane)	0 to 100 % LEL	IR

Other gases and measuring ranges on request.

\* CC = Catalytic Combustion  
EC = Electrochemical  
IR = Infrared

The MGSS features 8 individually programmable internal relays. In addition, up to 12 external transmitters and/or 4 relay modules can be connected via the RS-485 interface if required.

**Would you like to learn more about how your company can benefit from the GMA200 MGSS?**

**We will gladly advise you**

# Our specialist for monitoring O<sub>2</sub> in helium-containing air

Very light gases, such as helium, can falsify the measurement results of oxygen sensors. The EC220 with partial pressure sensor can be relied on even under such conditions.

Helium can be used for a wide range of applications. It is used in the production of silicon wafers as well as in cryogenic engineering, as a shielding gas or in medical technology.

However, as the graph clearly illustrates, the low molecular weight of the noble gas leads to measurement errors with most O<sub>2</sub> sensors. The oxygen level is displayed significantly higher than it actually is. The EC220 transmitter measures reliably and precisely even under these conditions thanks to its partial pressure sensor.

## Variants for every requirement

The EC220 is available in versions with and without display and as analog transmitter (0.2-1 mA or 4-20 mA) or in digital version (RS-485 / Modbus RTU). With an expected sensor lifetime of 5 years, it is also extremely economical to use.

You would like to learn more?

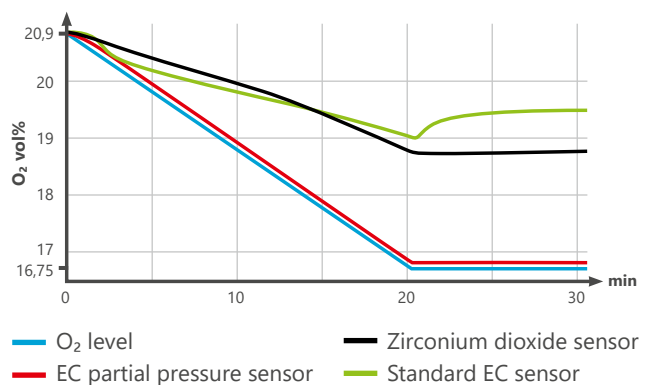
[View product details](#)



## Response behavior of different sensor technologies

### 0 to 20 % helium in the air

Adding 1 % helium per minute



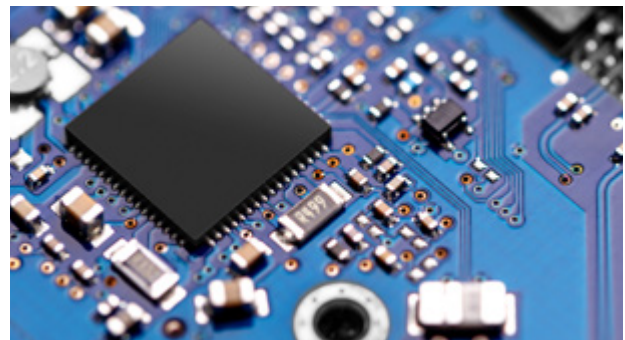
# Rising prices and long delivery times for chips

The shortage of semiconductors is also being felt by manufacturers of gas monitors.

The situation in the automotive industry is currently dominating the headlines, but the supply shortages for semiconductors are having an impact on all industries, causing production stops, delivery delays and rising prices in many places.

For many years, we were able to keep the prices for our equipment stable. However, to enable us to maintain our high standards in manufacturing and delivery, **higher prices will apply to our gas detectors from July 1, 2021. For all orders until June 30, 2021, the current prices will continue to apply.** We ask for your understanding.

**Talk to your contact at GfG about the new conditions.**



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