



*Products and performance*



### *GfG Instrumentation*

*GfG is a worldwide manufacturer of portable and fixed gas detection solutions.*

*For over 50 years, GfG has specialized in the development and manufacturing of high quality, robust and safe gas warning systems and sensors.*

*High quality, reliable products, excellent service, and the best cost of ownership of any gas detection products on the market!*

*"Technology for people and the environment."*





*GfG Instrumentation  
Technological leadership*



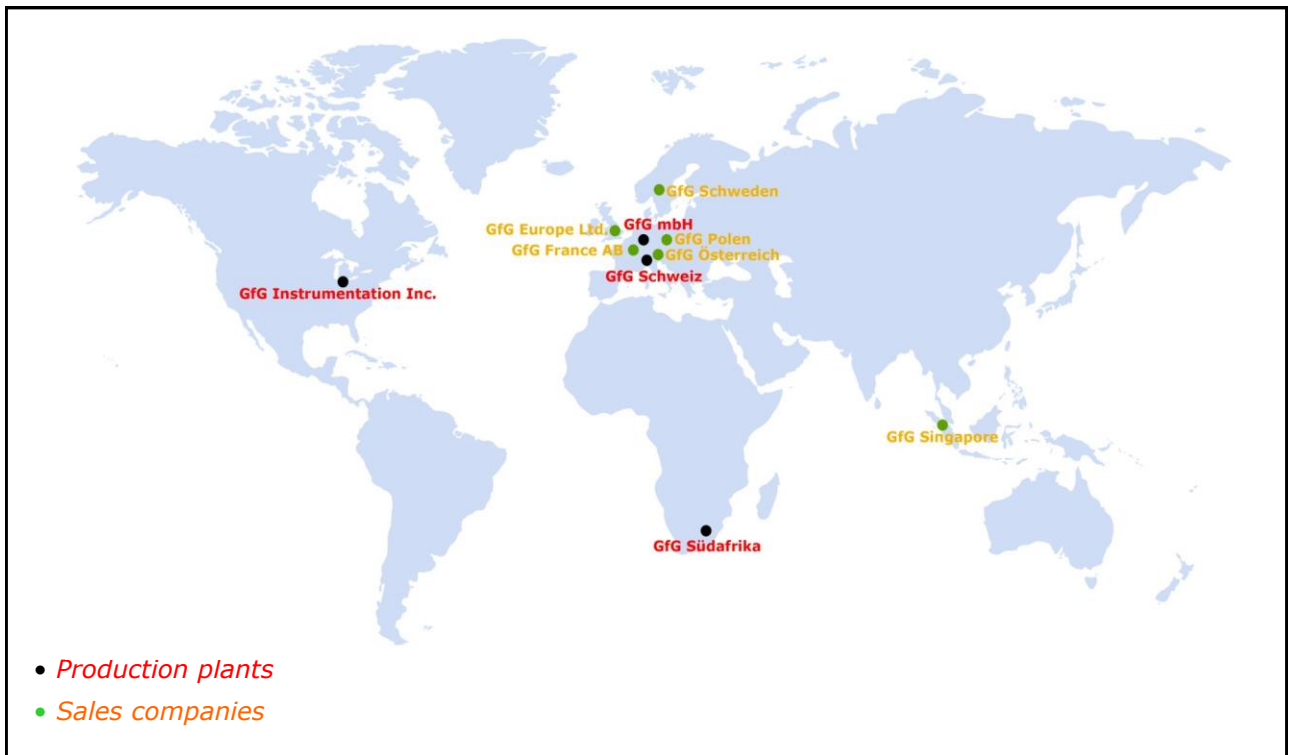
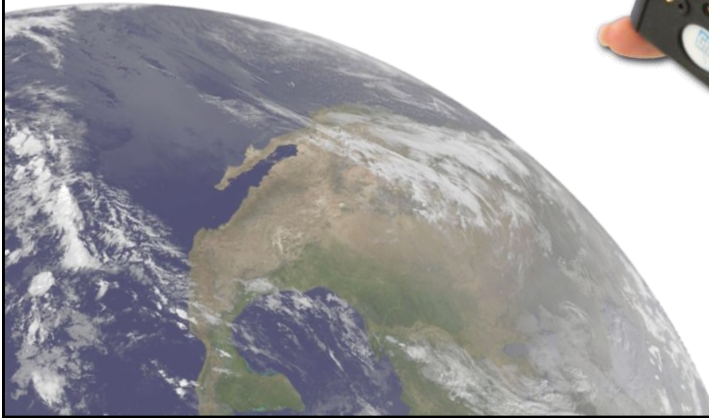
**G450 and G460**  
*Multi-gas detectors*



Worldwide Supplier of Gas Detection Solutions



## GfG Instrumentation World-wide reach





## *GfG Instrumentation*

*Technology based solutions for unique applications*



## *Gas detection solutions*

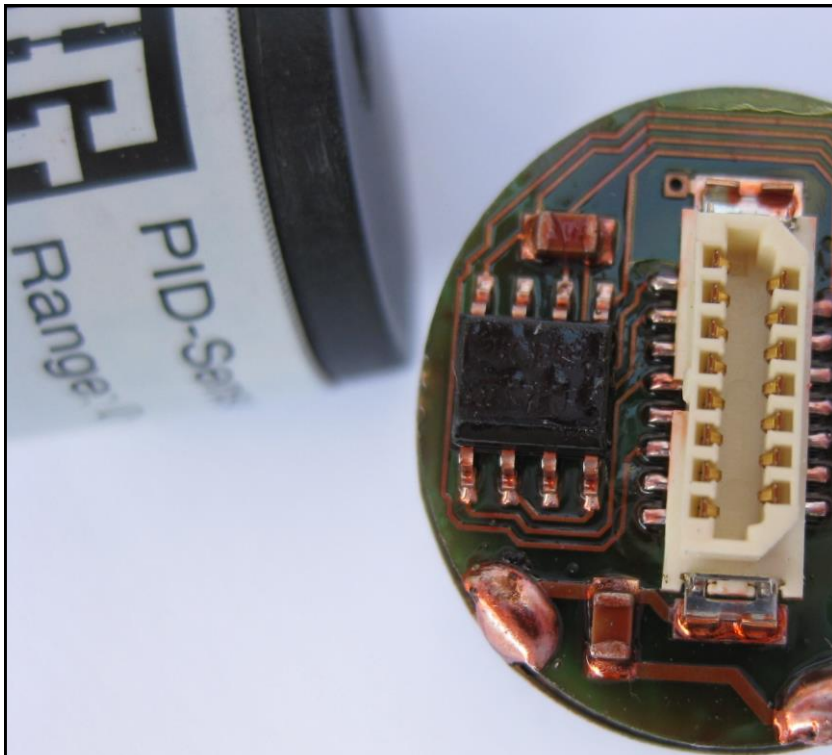
- Sewage treatment
- Gas industry
- Coal and steel industry
- Automotive industry
- Facility protection
- Fire brigade
- Food industry
- Chemical and
- Petrochemical industry





### GfG Instrumentation

Best sensor warranties, best product support,  
best customer value!



### Reliable technology

- Portable gas detectors
- Fixed gas detection systems
- Aqueous measurement systems



*Portable gas detectors*  
*Single-gas detectors*



*Single-gas detectors*

*Compact and rugged Micro IV single-gas detectors are the perfect solution for monitoring toxic gases, vapors and oxygen.*

- Carbon monoxide
- Hydrogen sulfide
- Sulfur dioxide
- Chlorine
- Hydrogen cyanide
- Nitrogen dioxide
- Nitric oxide
- Ethylene oxide
- Ammonia
- Chlorine dioxide
- Ozone
- Hydrogen
- Phosphine
- And many more!



### Micro IV

Single-gas detector for toxic gases, hydrogen and oxygen.

With data-logger, memory, infrared interface and Smart sensor technology.



### Comprehensive Accessories

Docking and data interface stations, motorized pumps, probes, calibration kits and everything else you need to use and maintain your instruments.



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*Portable gas detectors*  
*Multi-gas detectors*



### *Multi-gas detectors*

*GfG multi-gas instruments are compact, reliable and simple to operate.*

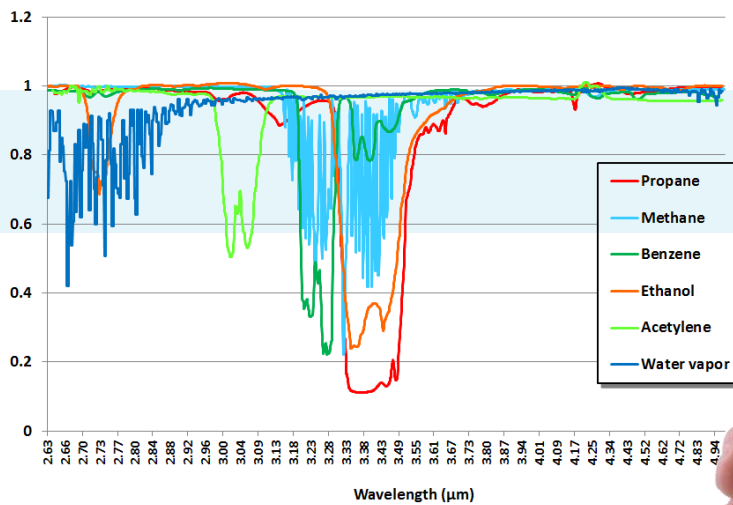
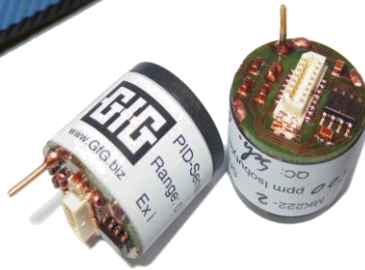
*Loud audible and bright visual alarms give immediate warning of up to 6 gas hazards at the same time.*





### G460

Available with PID Smart-Sensor for broad-range VOC measurement



### G460

Available with proprietary IR sensor for simultaneous CO<sub>2</sub> and combustible gas measurement





### DS 400 Docking Station

The innovative DS 400 provides a completely automatic test, calibration and record keeping system for your GfG instruments.



### Comprehensive Accessories

Calibration kits, motorized pumps, probes, carrying cases and everything else you need to use and care for your instruments



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### Fixed gas detection systems

Comprehensive line of fixed transmitters and controllers able to detect over 500 gases



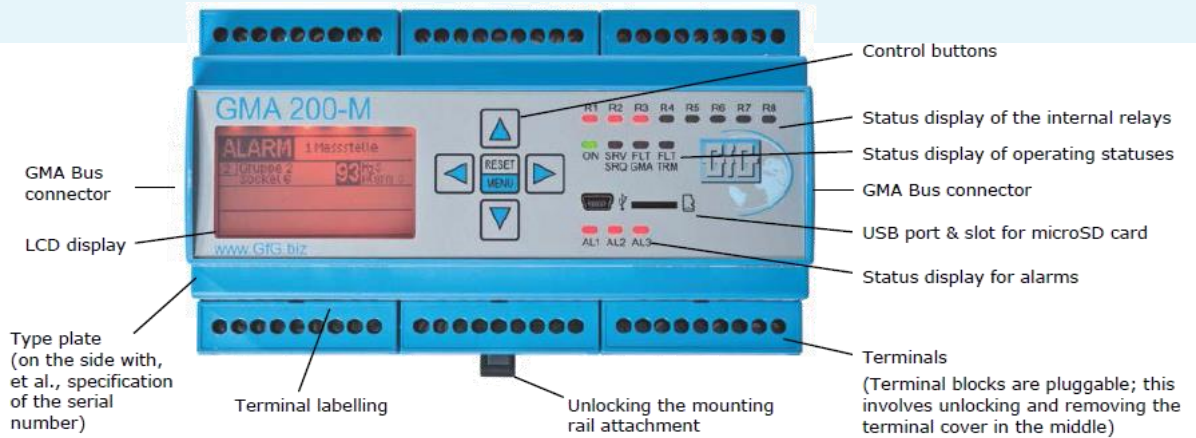
### Fixed gas detection systems

- Controllers
- Transmitters
- Stand-alone systems



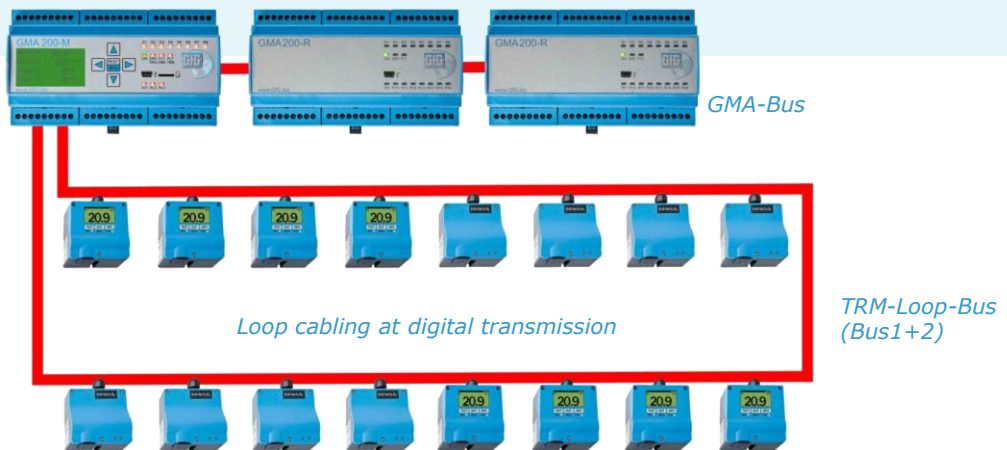
### Fixed gas detection systems

#### GMA 200 Programmable Logic Controller



### Fixed gas detection systems

#### GMA 200 Programmable Logic Controller provides complete flexibility for system architecture





GMA 40

### DIN rail mounted controllers

*GMA 40 Series controllers are flexible, cost-effective control units for one to four transmitter systems*

*GMA 40 Series can be clipped directly onto standard DIN rails in switchgear cabinets.*



GMA 200-M

### Wall-mount controllers

*Complete control systems for wall mounting. Switchgear cabinets or additional housings are not necessary*

*GMA 200 series controllers provide a complete fixed gas detection system for a wide range of different flammable and toxic gases, and oxygen.*

*Multiple measuring points can be monitored at the same time.*

*All transmitter types can be attached.*



**19" Rack mount controller cabinets**  
GMA100 and GMA300 series are rack-mounted microprocessor-based control and monitoring systems for all measurement tasks.



**Fixed System  
Gas Measurement  
Transmitters**

- Combustible gases (EX)
- Toxic gases (TOX)
- Oxygen (OX)



### Catalytic LEL Transmitters

Combustible gases (EX)



### IR-29 transmitters for LEL gases (EX)

Proprietary infrared technology provides readings based on up to four different wavelengths at the same time

*Intrinsically safe IR-29 infrared sensors are extremely sensitive, stable, and cannot be harmed by sensor poisons*

*Able to measure wide variety of combustible gases including aromatic VOCs, alcohols and acetylene as well as saturated gases such as methane, butane and hexane*

*Intrinsically safe IR-29 transmitters can measure heavy LEL range vapors such as diesel and jet fuel that are not measurable by any other technology*





### Transmitters for toxic gases

- Electrochemical (EC)
- Charge Carrier Injection (CI)
- Chemosorption (CS)
- Infrared (IR)

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### Toxic gas transmitters (TOX)

EC-28 Series of highly configurable toxic gas transmitters can be equipped with exactly the right sensors, displays, relays and local alarms needed for the application





### Transmitters for oxygen

- Zirconium dioxide (ZD)
- Electrochemical (EC)



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### Fixed gas detection systems

GfG CI-21 Ammonia and ZD-21 Oxygen transmitters provide spectacular performance based on unique, proprietary long-lived sensor technology





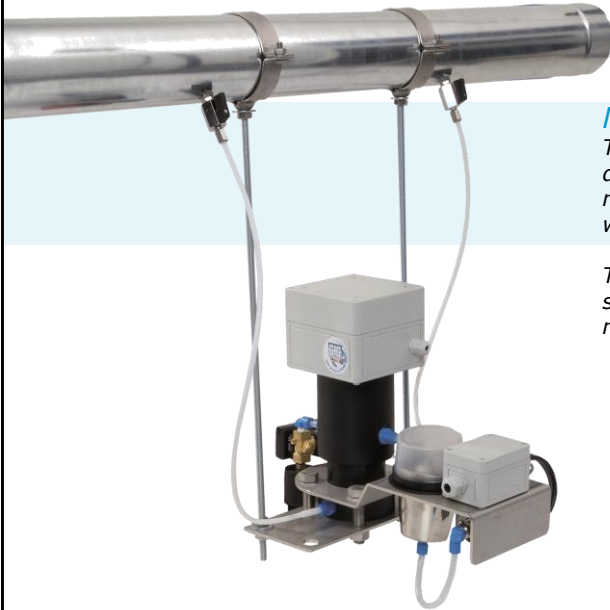
### Stand-alone systems

*GfG Dynagard systems include the transmitter and controller in a single integrated easy to install, cost-effective wall-mounted unit*



### Aqueous measurement systems

*GfG MiniCal systems provide real-time measurement of the ammonia concentration in the coolant loops of large refrigeration systems*



### MiniCal III

The MiniCal III system was designed especially for detection of ammonia leakages in cooling circuits. This robust and practical system can be used in water as well as in glycol brine circuits.

The MiniCal III uses ion selective membranes and gas sensing electrodes for reliable real-time detection of ammonia leaks.



### Variocon 2010

GFG Variocon systems provide real-time aqueous pH values, redox readings, and chlorine and ozone measurements



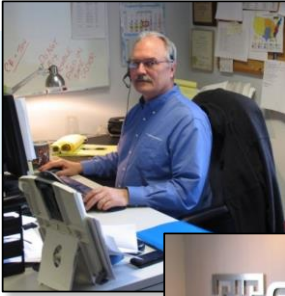
**Real-time Air Monitoring (RAM)**  
Fully portable and wall mounted panels for CO monitoring and purification of compressed breathing air



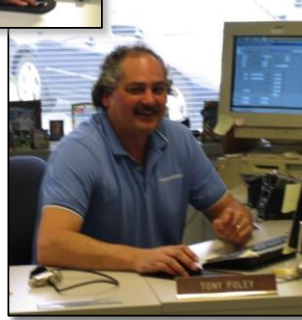
**Real-time Air Monitoring (RAM)**  
Stationary compressor and wall mounted panels for CO, oxygen and dew-point measurement



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*Customer service & Support  
The best in the industry!*

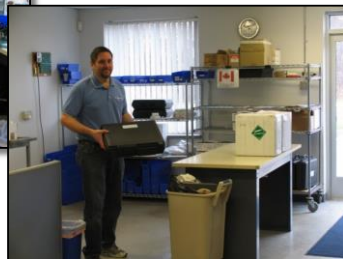
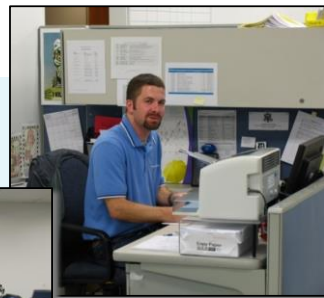


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### *GfG Instrumentation*

*The people and the products are what makes the difference!*





*Thank you for your  
attention!*