

Dear readers,

Even in times of increasing digitalization – and all the advantages it brings – personal contact at trade shows and events is still invaluable. Face-to-face conversations allow us to answer your questions directly as well as giving us valuable insights into the challenges our customers are facing today. We look forward to meeting you at upcoming trade shows and showing you our latest products and technologies.

*Hans-Jörg Hübner*

**Hans-Jörg Hübner,**  
CEO of Gesellschaft für  
Gerätebau mbH



## Meet us at Chillventa

Chillventa is a leading international trade fair for refrigeration and air conditioning technology. From October 8 to 10, 2024, key players of this industry will be meeting in Nuremberg to present the latest technologies and discuss current trends. GfG will be there as well and showcase its fixed gas detection systems, portable gas detectors and solutions for monitoring water and brine circuits.

Come visit us in **Hall 5 at Booth 5-206.**



Do you need to monitor refrigerants or other gases in your application? We would like to invite you to visit our booth at Chillventa and discuss your requirements with one of our product experts from Germany, Austria, Poland or Switzerland.

Would you like a personal consultation at our booth?

**Book an appointment now and receive a ticket**

## SIL-capable transmitter for monitoring refrigerants

The CS22 transmitter of our reliable 22 series monitors refrigerants such as R-717 and R-1234yf using a chemisorption sensor.

Toxic and combustible gases as well as those harmful to the environment are used as refrigerants in many industrial applications. Monitoring them does not only protect the environment but also increases occupational safety. The CS22 transmitter – which is also available in its CS22 D version, featuring a display – is a dependable solution for continuous monitoring of refrigerants outside of Ex zones. Its hardware complies with the European standard for functional safety (DIN EN 61508-2: 2011) for many gases.

### Economical sensors for all common refrigerants

The CS22's chemisorption sensor is adjusted to the measured gas. Depending on your requirements and the measured gas, you can choose between different measuring ranges (e.g. 0–300 ppm or 0–1 vol % NH<sub>3</sub>). Using the sensors will let you benefit from low operating costs and their long lifetimes. The measured value can be transferred to a central controller either via analog or digital signal.



### In a nutshell:

- » For refrigerants as well as toxic and flammable gases
- » Display and audible alarm (optional)
- » Optionally with analog or digital signal output
- » Also available with functional safety (up to SIL3) for many gases

Would you like to know more about the CS22 D?

**View product description**

# Challenges of refrigerant sensors



Monitoring refrigerants comes with unique challenges for developers, manufacturers and operators of gas detection systems. Each refrigerant has different chemical properties, making it difficult to precisely detect them. Some are volatile and hard to detect at all, while others are toxic or combustible. False alarms may be triggered by potential interferences from other substances as well. Refrigerant sensors must be both sensitive and selective to reliably detect the target gases and need to work effectively in different environments, from industrial refrigeration systems to small air conditioning units.

We offer gas detectors with sensors for targeted detection of refrigerants which fulfill the high standards of industrial applications, such as reliably operating in temperatures as low as -40 °C. One of our greatest strengths is the ability to develop sensors for new and uncommon gases or special measuring ranges. This allows us to provide customized solutions for individual customer requirements.

Can we help you with the detection of refrigerants?

[Book a consultation](#)

## Safety in all things H<sub>2</sub> at Hydrogen Technology EXPO

Hydrogen is becoming increasingly important as a key technology for a sustainable future. While the versatile source of energy has numerous advantages, it also has very specific safety requirements. Discuss this topic with our experts in **Hall 3 at Booth 3C85** at the international hydrogen trade show in Hamburg on October 23 and 24. They will be glad to show you our portable and fixed gas detection systems for detecting H<sub>2</sub>.



Would you like to visit us in Hamburg?

[Secure your free ticket now](#)

## Transmitter for H<sub>2</sub>, toxic gases and O<sub>2</sub> in Ex zones

The EC28 transmitter is a perfect solution if your application requires you to monitor hydrogen in Ex classified areas. Measured values are transmitted to a controller, which can then initiate further safety procedures, using a 4–20 mA signal or digitally, via Bus cabling. The EC28 is also available in an intrinsically safe version for use in Ex zone 0. Sensors for 20 gases and numerous optional features, such as a display for indicating measured values on site, visual and audible alarms and a relay for external alarms make the EC28 a versatile solution for many requirements.



Want to know more?

[Download the product data sheet](#)

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