



Fixed gas detection systems

smart
GasDetection
Technologies



CS22 D Transmitter with display and buzzer

For monitoring toxic
and flammable gases



MADE IN
GERMANY

GfGsafety.com

CS22 D Transmitter with display and buzzer

For monitoring toxic and flammable gases



Wherever toxic or flammable gases and vapors must be monitored without requirements for explosion protection, the use of the CS22 D is recommended.

Proven and cost-effective

The CS22 D works on the principle of chemisorption (CS). Thanks to a wide range of monitorable gases and multiple measurement ranges, the CS22 D offers a wide range of uses, from laboratories to industrial applications to refrigeration systems.

Transmitters with electrochemical sensors (EC), are also used with toxic and flammable gases. In contrast, the CS22 D is a much more durable and cost-efficient solution. However, the environmental parameters must fit.

Communicates analog and digital

The measured values and status information of the CS22 D can be transmitted either analog (4-20 mA or 0.2-1 mA) or digital (RS-485). This allows not only the use in combination with any GfG controller, but also the connection to programmable logic controllers (PLC).

Display and alarm on site

The D variant of the CS22 has a 2.2" display to show measured values, status information and alarms at the measuring point. Normally backlit in green, the display changes for visual alert to red in the event of an alarm. At the same time, an acoustic alarm signal can be emitted via the integrated horn.

Variants for every requirement

The basic version of the CS22 is sufficient for many applications. If a measured value display on site is desired, there is also a variant with display and acoustic alarm.

CS22 Basic variant for a wide range of catalytic sensors

CS22 D with display to show the current measured value

In combination with GfG's powerful controllers, both variants are the right choice for a wide range of gases to be monitored.

Overview of the gases and measuring ranges:

Other gases on request.

| | | | |
|------------|----------------|------------|------------------------|
| » n-Hexane | 0 to 100 % LEL | » R-438A | 0 to 1000 ppm |
| » R-23 | 0 to 1000 ppm | » R-448A | 0 to 1000 ppm |
| » R-1234yf | 0 to 1000 ppm | » R-449A | 0 to 1000 ppm |
| » R-1234ze | 0 to 1000 ppm | » R-454B | 0 to 1000 ppm |
| » R-134a | 0 to 1000 ppm | | 0 to 2000 ppm |
| | 0 to 2000 ppm | » R-507[A] | 0 to 1000 ppm |
| | 0 to 5000 ppm | » R-717 | 0 to 300 ppm |
| » R-404A | 0 to 1000 ppm | (ammonia) | 0 to 1000 ppm |
| » R-407C | 0 to 2000 ppm | | 0 to 3000 ppm |
| » R-410A | 0 to 1000 ppm | | 0 to 1,000 % by volume |



CS22 D – durable and efficient

CS22 D Technical Data:

Measuring principle: Chemisorption (CS)

Measuring ranges¹: 0 to 100 % LEL
0 to 5000 ppm
0 to 1.000 % by volume

Gas supply: Diffusion or gassing
per calibration adapter

Lifetime of the sensor: >5 years

Response time: t₉₀ < 15 s

Temperature: -20 to +50 °C

Humidity: 5 to 90 % r. h.

Air pressure: 80 to 120 kPa

Output signal:
Analog: 0.2-1 mA or 4-20 mA
Digital: RS-485

Power supply: 12 to 30 V DC

Housing: Plastic

Protection class: IP54

Dimensions: 96 x 140 x 49 mm
(W x H x D)

Weight: 220 g

Approvals / Certifications:

Functional
Safety (SIL): DIN EN 61508-2: 2011

¹ Sensor dependent

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