



CS22 D Transmitter with display and buzzer

For monitoring toxic and flammable gases



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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.



CS22 D – durable and efficient

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
	0 to 2000 ppm		0 to 3000 ppm
» R-407C	0 to 1000 ppm		0 to 1,000 % by volume
» R-410A	0 to 1000 ppm		

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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