



CS22 Transmitter

For monitoring toxic and flammable gases



CS22 Transmitter

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 is recommended.

Proven and cost-effective

The CS22 works on the principle of chemisorption (CS). Thanks to a wide range of monitorable gases and multiple measurement ranges, the CS22 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 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 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).

Smart measured value processing

Industry-wide, the trend is towards smart units, such as the CS22, whose integrated electronics process the data already at the measuring point. The linearization of the measurement signal, compensation of temperature influences, detection of malfunctions and information on the next service or maintenance interval are just some of the advantages that result.

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 - durable and efficient

CS22 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: 175 g
Approvals / Certifications: Functional
Safety (SIL): DIN EN 61508-2: 2011

¹ Sensor dependent

GfG Gesellschaft für Gerätebau mbH

Klönnestraße 99 | 44143 Dortmund | Germany

Phone: +49 231 56400-0 | **Fax:** +49 231 56400-895 | **E-mail:** info@gfg-mbh.com

GfGsafety.com

