



CS22 Transmitter

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 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.



CS22 - 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 Technical Data:

Measuring principle:	Chemisorption (CS)	Temperature:	-20 to +50 °C	Protection class:	IP54
Measuring ranges¹:	0 to 100 % LEL 0 to 5000 ppm 0 to 1.000 % by volume	Humidity:	5 to 90 % r. h.	Dimensions:	96 x 140 x 49 mm (W x H x D)
Gas supply:	Diffusion or gassing per calibration adapter	Air pressure:	80 to 120 kPa	Weight:	175 g
Lifetime of the sensor:	>5 years	Output signal:	Analog: 0.2-1 mA or 4-20 mA Digital: RS-485	Approvals / Certifications:	Functional Safety (SIL): DIN EN 61508-2: 2011
Response time:	t90 < 15 s	Power supply:	12 to 30 V DC		
		Housing:	Plastic		

¹ Sensor dependent

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