



CS22 Transmitter

For monitoring toxic and flammable gases



 **MADE IN
GERMANY**



GfGsafety.com

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If you need to monitor toxic or flammable gases and vapors without Ex protection requirements, a CS22 is a great choice.

Reliable and cost-effective

The CS22 uses the chemisorption (CS) principle. Its wide range of monitored gases and measuring ranges makes the CS22 suitable for a wide spectrum of different applications from laboratories to industrial operations or even cooling systems.

Transmitters with electrochemical sensors (EC) can be used in any application dealing with toxic and flammable gases. However, the CS22 is a significantly more durable and cost-effective solution (depending on the environmental factors).

Analog and digital communication

The CS22's measured values and status notifications can be transmitted via analog signal (4-20 mA or 0.2-1 mA) as well as digitally (RS-485). This allows it to be used not only in combination with every GfG controller but also with programmable logic controllers (PLC).

Smart processing of measured values

The industry as a whole is headed towards smart units, such as the CS22 whose integrated electronics evaluate data directly at measuring point. This comes with numerous advantages, including the linearization of the measuring signal, the ability to compensate for temperature influences, detection of faults as well as information on the next scheduled service or maintenance.

Different versions for every requirement

The standard version CS22 is absolutely sufficient for a variety of applications. There is also a display version featuring an integrated acoustic alarm for when you need the measured values to be displayed on-site.

- CS22** Standard version for a variety of catalytic sensors
- CS22 D** with display for indications of the current measured value

Both versions are a fantastic choice for numerous possible gases when used in combination with a powerful GfG controller.

Overview of 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
		(ammonia)	0 to 1000 ppm
» R-404A	0 to 1000 ppm		0 to 3000 ppm
» R-407C	0 to 2000 ppm		0 to 1,000 % by volume
» R-410A	0 to 1000 ppm		



CS22 – durable and efficient

CS22 technical specifications:

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 vol %	Humidity:	5 to 90 % RH	Dimensions:	96 x 140 x 49 mm (W x H x D)
Gas supply:	Diffusion or gas supply via calibration adapter	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:	t ₉₀ < 15 s	Power supply:	12 to 30 V DC		
		Housing:	Plastic		

¹ Sensor dependent

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