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.

Overview of the gases and measuring ranges:

- n-Hexane 0 to 100 % LEL
- R-23 0 to 1000 ppm
- R-1234yf 0 to 1000 ppm
- R-1234ze 0 to 1000 ppm
- R-154a 0 to 2000 ppm
- R-404A 0 to 5000 ppm
- R-407C 0 to 1000 ppm
- R-410A 0 to 1000 ppm
- R-438A 0 to 1000 ppm
- R-448A 0 to 1000 ppm
- R-449A 0 to 1000 ppm
- R-454B 0 to 1000 ppm
- R-507[A] 0 to 1000 ppm
- R-717 (ammonia) 0 to 300 ppm
- R-407C 0 to 1000 ppm
- R-717 (ammonia) 0 to 3000 ppm
- R-507[A] 0 to 1000 ppm
- R-717 (ammonia) 0 to 1,000 % by volume

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 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: t<sub>90</sub> < 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

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