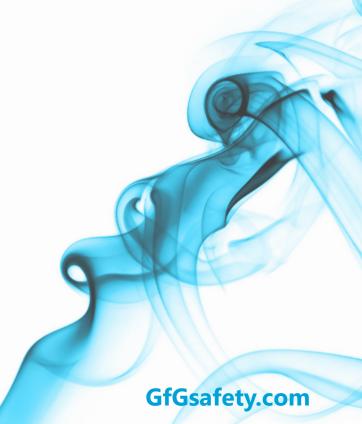


CS22 D Transmitter with display and buzzer

For monitoring toxic and flammable gases





CS22 D Transmitter with display and buzzer



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 D is recommended.

Proven and cost-effective

The CS22 D works on the principle of chemisorption (CS). Thanks to a wide range 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.

Basic variant for a wide range **CS22**

of catalytic sensors

CS22 D with display to show the

current measured value

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.

» R-23 » R-1234yf » R-1234ze » R-134a » R-404A

» R-407C

» R-410A

» n-Hexane

0 to 1000 ppm 0 to 1000 ppm 0 to 1000 ppm 0 to 2000 ppm 0 to 5000 ppm

0 to 100 % LEL

0 to 1000 ppm

0 to 1000 ppm 0 to 2000 ppm 0 to 1000 ppm 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 0 to 2000 ppm » R-507[A] 0 to 1000 ppm » R-717 0 to 300 ppm 0 to 1000 ppm (ammonia) 0 to 3000 ppm

0 to 1,000 % by volume

CS22 D Technical Data:

Measuring principle: Chemisorption (CS) Measuring ranges¹: 0 to 100 % LEL

0 to 5000 ppm

0 to 1.000 % by volume Diffusion or gassing

per calibration adapter

Lifetime of

Gas supply:

the sensor: >5 years $t_{90} < 15 s$ **Response time:**

Temperature: -20 to +50 °C **Humidity:** 5 to 90 % r. h. 80 to 120 kPa Air pressure:

Output signal:

0.2-1 mA or 4-20 mA Analog:

Digital: RS-485 12 to 30 V DC **Power supply:**

Housing: Plastic **Protection class: IP54**

96 x 140 x 49 mm **Dimensions:**

 $(W \times H \times D)$

Weight: 220 g Approvals /

Certifications:

Functional

Safety (SIL): DIN EN 61508-2: 2011

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¹ Sensor dependent