

# CS22 D Transmitter

**For monitoring toxic and flammable gases**



# CS22 D Transmitter

For monitoring toxic and flammable gases, with display and alarm

Wherever toxic or flammable gases and vapors must be monitored without requirements for explosion protection, the use of the CS22 D transmitter is recommended.

## Proven and cost-effective

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

## Analog and digital communication

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 version of the CS22 has a 2.2 inch 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 from the integrated horn.

In combination with GfG's powerful controllers, the CS22 is the right choice for monitoring a wide range of gases.



CS22 D - durable and efficient

## Overview of the gases and measuring ranges:

Other gases on request.

» n-Hexane	0 to 100 % LEL	» R-404A	0 to 1,000 ppm	» R-454B	0 to 1,000 ppm
» R-23	0 to 1,000 ppm		0 to 2,000 ppm		0 to 2,000 ppm
» R-1234yf	0 to 1,000 ppm	» R-407C	0 to 1,000 ppm	» R-507[A]	0 to 1,000 ppm
» R-1234ze	0 to 1,000 ppm	» R-410A	0 to 1,000 ppm	» R-717	0 to 300 ppm
» R-134a	0 to 1,000 ppm	» R-438A	0 to 1,000 ppm	(ammonia)	0 to 1,000 ppm
	0 to 2,000 ppm	» R-448A	0 to 1,000 ppm		0 to 3,000 ppm
	0 to 5,000 ppm	» R-449A	0 to 1,000 ppm		0 to 1,000 % by volume

## Technical Data: CS22 D

**Measuring principle:** Chemisorption (CS)

**Detection range\*:** 0-100% LEL

0-5,000 ppm

0-1,000% by volume

**Gas supply:** Diffusion or gassing per calibration adapter

**Expected sensor life:** Greater than 5 years

**Response time:**  $t_{90} < 15$  s

**Temperature:** -4 to +122 °F /  
-20 to +50 °C

**Humidity:** 5 to 90% r.h.

**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:** 3.78 x 5.5 x 1.93 in /

96 x 140 x 49 mm (W x H x D)

**Weight:** 7.8 oz / 220 g

**Approvals / Certifications:**

Functional Safety (SIL):

DIN EN 61508-2: 2011

\* Sensor dependent



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