



## CC22 D Transmitter with display and horn

# For flammable gases and vapors outside Ex zones



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The CC22 D is the first choice wherever combustible gases and vapors need to be monitored in the measuring range 0 to 100 % LEL without requirements for explosion protection.

## Proven and yet up-to-date

The CC22 D operates on the principle of catalytic combustion, a proven measurement method for monitoring combustible gases.

Temperature compensation, voltage stabilization and processing of the measured value output are handled by the smart electronics, and the long service life of the sensors reduces operating costs.

## Analog and digital communication

The measured values and status information of the CC22 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 CC22 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 will be emitted by the integrated horn.



Visual display and alarm

## Simple calibration and adjustment

All service and maintenance work can be performed by a single technician. A calibration adapter facilitates regular function checks. It ensures the safe and steady supply of test gas during maintenance.

## Various models for different applications

The basic version of the CC22 is sufficient for many applications. If a measured value display on site is needed, there is also a version with display and acoustic alarm.

**CC22** Basic version for a wide range of catalytic sensors

**CC22 D** With display and acoustic alarm

In combination with GfG's powerful controllers, both versions are the ideal choice for monitoring a wide range of gases.

## Detectable gases and their CAS-No.:

Other gases on request.

|                                    |   |  |
|------------------------------------|---|--|
| » LEL (CAS No. -)                  | » Ethylene (CAS No. 74-85-1)                | » Methyl isobutyl ketone MIBK (CAS No. 108-10-1) |
| » Acetone (CAS No. 67-64-1)        | » Ethyl formate ETF (CAS No. 109-94-4)      | » n-Butanol (CAS No. 71-36-3)                    |
| » Acetylene (CAS No. 74-86-2)      | » Heptane (CAS No. 142-82-5)                | » n-Hexane (CAS No. 110-54-3)                    |
| » Ammonia (CAS No. 7664-41-7)      | » Isopropanol (CAS No. 67-63-0)             | » n-Nonane (CAS No. 111-84-2)                    |
| » Butane (CAS No. 106-97-8)        | » Methane (CAS No. 74-82-8)                 | » Pentane (CAS No. 109-66-0)                     |
| » Ethane (CAS No. 74-84-0)         | » Methanol (CAS No. 67-56-1)                | » Propane (CAS No. 74-98-6)                      |
| » Ethanol (CAS No. 64-17-5)        | » Methyl acetate (CAS No. 79-20-9)          | » Toluene (CAS No. 108-88-3)                     |
| » Ethyl acetate (CAS No. 141-78-6) | » Methyl ethyl ketone MEK (CAS No. 78-93-3) | » Hydrogen (CAS No. 1333-74-0)                   |

## CC22 D Technical Data:

|                                |   |                       |  |                                    |  |
|--------------------------------|---|-----------------------|--|------------------------------------|--|
| <b>Measuring principle:</b>    | Catalytic combustion (CC)                       | <b>Temperature:</b>   | -20 to +50 °C <sup>4</sup>                     | <b>Protection class:</b>           | IP54   |
| <b>Measuring ranges:</b>       | 0 to 100 % LEL<br>0 to 4 vol% <sup>1</sup>      | <b>Humidity:</b>      | 5 to 90 % r. h. <sup>4</sup>                   | <b>Dimensions:</b>                 | 96 x 140 x 49 mm<br>(W x H x D)                  |
| <b>Gas supply:</b>             | Diffusion or gassing<br>per calibration adapter | <b>Air pressure:</b>  | 80 to 120 kPa <sup>4</sup>                     | <b>Weight:</b>                     | 220 g  |
| <b>Lifetime of the sensor:</b> | 5 years <sup>2</sup>                            | <b>Output signal:</b> | Analog: 0,2-1 mA or 4-20 mA<br>Digital: RS-485 | <b>Approvals / Certifications:</b> | Functional<br>Safety (SIL): DIN EN 61508-2: 2011 |
| <b>Response time:</b>          | t90 ≤ 9 s <sup>3</sup>                          | <b>Power supply:</b>  | 12 to 30 V DC                                  |                                    |  |
|                                |   | <b>Housing:</b>       | Plastic  |                                    |  |

<sup>1</sup> For ammonia only, <sup>2</sup> Depending on operating conditions, <sup>3</sup> Depending on the gas type, <sup>4</sup> Sensor dependent

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