



## CC22 Transmitter

# For flammable gases and vapors outside Ex zones



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The CC22 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 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 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 CC22, whose integrated electronics process the data already at the measuring point. The measurement signal linearization, temperature compensation, malfunction detection, and next service or maintenance interval information are just some of the advantages.



CC22 - reliable and compact

## 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 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 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 (W x H x D)
<b>Gas supply:</b>	Diffusion or gassing per calibration adapter	<b>Air pressure:</b>	80 to 120 kPa <sup>4</sup>	<b>Weight:</b>	175 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 Digital: RS-485	<b>Approvals / Certifications:</b>	Functional 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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