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.

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.

CC22 - reliable and compact

Detectable gases and their CAS-No.: Other gases on request.
- LEL (CAS No. - )
- Acetone (CAS No. 67-64-1)
- Acetylene (CAS No. 74-86-2)
- Ammonia (CAS No. 7664-41-7)
- Butane (CAS No. 106-97-8)
- Ethane (CAS No. 74-84-0)
- Ethanol (CAS No. 64-17-5)
- Ethyl acetate (CAS No. 141-78-6)
- Ethylene (CAS No. 74-85-1)
- Ethyl formate ETF (CAS No. 109-94-4)
- Heptane (CAS No. 142-82-5)
- Isopropanol (CAS No. 67-63-0)
- Methane (CAS No. 74-82-8)
- Methanol (CAS No. 67-56-1)
- Methyl acetate (CAS No. 79-20-9)
- Methyl ethyl ketone MEK (CAS No. 78-93-3)
- Methyl isobutyl ketone MIBK (CAS No. 108-10-1)
- n-Butanol (CAS No. 71-36-3)
- n-Hexane (CAS No. 110-82-4)
- n-Nonane (CAS No. 109-66-0)
- Pentane (CAS No. 74-98-6)
- Propane (CAS No. 108-88-3)
- Hydrogen (CAS No. 133-74-0)

CC22 Technical Data:

Measuring principle: Catalytic combustion (CC)
Measuring ranges: 0 to 100 % LEL 0 to 4 vol% \(^1\)
Gas supply: Diffusion or gassing per calibration adapter
Lifetime of the sensor: 5 years \(^2\)
Response time: \(t_{90} \leq 9 \text{ s} \(^3\)
Temperature: -20 to +50 °C \(^4\)
Humidity: 5 to 90 % r. h. \(^4\)
Air pressure: 80 to 120 kPa \(^4\)
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

\(^1\) For ammonia only, \(^2\) Depending on operating conditions, \(^3\) Depending on the gas type, \(^4\) Sensor dependent

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